

FILE: SYNODIC-260 minus Interfer

NOTE: THE BOOK STARTS AT TITLE PAGE – DIRECTLY BELOW ARE MY RESEARCH NOTES

Interference (lunar occultation) <http://spiff.rit.edu/richmond/occult/bessel/bessel.html>

PLEASE NOTE: The book is under revision. There are errors that need to be corrected and additions may be found in the smaller download.

RUST ON A GUY LINE IS KNOWN TO CAUSE INTERFERENCE WITH HAM RADIO OPERATORS

WHAT IS MATTER? <http://www.scientificamerican.com/article/what-is-matter/>

By Erwin Schrodinger

Scientific American September 1953 Schrodinger concludes in the final paragraph:

The wave-particle dualism afflicting modern physics is best resolved in favor of waves, in summary ‘particles are constructed from waves’.

Here we may conclude that waves under some circumstances may take on particle like attributes such as collision and transfer of momentum or forces. And such we might at the very least, consider such attributes in wave interference experiments when the waves take on particle like attributes.

VERY GOOD EXERIMENT BELOW:

NOTE: A rotational polarized (helix wave) cannot be made into a standing wave unless it rotates as fast as it propagates. By the bolt analogy ‘It strips out’ or the bolt moves forward (the propagation) faster than the threads rotation would allow. The artificial gravity wave generator must be a standing wave first.

Experiment: A standing radio carrier wave may put lines in the sand (600+ Hz.). A microwave magnetron tube may mess up the beach sand in conditions outlined in theory however.

Because gravity waves cannot be detected in the usual ways it becomes very mysterious and science had to come up with mysterious explanations for it. So scientists using solely using mathematics have decided that warped or curved space and time (general relativity) is correct because the math answers are correct. However we all know that math can arrive at the same answer many different ways. What makes gravity waves so mysterious is because they pass through everything they have a cloak of invisibility (so to speak) sort of like air until the wind blows. However with common radio techniques every radio uses, the gravity wave can be altered enough to be detected. They take one look and reject it on the grounds that flowing water causes ripples. No one would work on this as I have since the 1990's if ripples in the sand were all there was to it. The helix is found all through nature.

I presented the theory that gravity was a rotating helix wave in 1992 on Compuserve science forum. Since then it has been presented on many science forums and several book CD copies went out. At that time there was only a hand full who believed and I was constantly ridiculed and pushed into speculative

areas or kicked off forums. Now over 20 years later it seems many private researchers feel it possibly may be a single helix wave. But scientific institutions receiving federal funding still totally reject this concept. A lot of natural things end up spirals (helixes). Anything that spins can trace out a helix and atoms constantly spin. Yet they believe that nothing can be emitted from the atom because it would collapse. However we all know that a tremendous amount of energy is contained within the atom as the atom bomb clearly reveals. This energy must be coming from somewhere. To think energy can only come out when the atom collapses or broken apart in supercolliders is simply ridiculous yet this is what they believe. Gravity is very simple concept and anyone with common sense can comprehend it.

Synodic is just a term to describe repeating planetary motions don't worry about it.

The "Synodic Gravitational Phenomenon" discovered in 1990's gave comprehensive conclusions of what gravity is and was given some coverage on local television and newspapers as well as scientific forums on the internet. But because a fake and a real appearance of the phenomenon most people arrive at the conclusions that it is nonsense, however I assure you it is not. This is a guaranteed no brainer yet something is blocking the progress.

I've presented this phenomenon many times to the scientific community but they insist it cannot be this simple and vision the sand patterns are only the result of water wave motions which is only half true. The patterns have been directly related to Doppler shifted planetary motions. Now everyone knows what Doppler is – when I presented 20 years ago when I mentioned the word 'Doppler' to everyday people their eyes glazed over. How long can we let this go on? I no longer know how to approach them they insist it is something else. Now that we all know what Doppler is it should not be difficult to figure out this half of the theory. The other half of the theory is very common process that happens with all waves including music. They have beat frequencies when two notes are played together. Anyone who has studied music knows this – it is very simple. Combining the two together 'Doppler' and 'beat frequencies' along with the helix wave, results in the completion of the basics of the theory. This is very simple and you can figure it out yourself as can anyone.

For example say both the moon and earth are emitting the musical note middle C (which happens to be 261 cycles). So us standing on the earth we constantly hear the hum of earth's middle C. The moon is also emitting middle C but because it orbits us in an ellipse the note constantly Doppler shifts up and then down as its orbit takes it toward and away from us every 28 days. So now we have two notes that can be heard here on earth, earth's middle C and moons Doppler shifted middle C which constantly Doppler shifts to new notes like a very slow wow wow heard from pressing on the vibrato or tremolo bar on the electric guitar. Or a better example is a train whistle which changes pitch when coming toward an observer then away. But if we listen carefully we will hear a third note, which is the beat frequency from adding the two musical notes together.

So now we can hear three notes: These are earths middle C, Moons Doppler shifted middle C, and the beat frequency from hearing the two notes at the same time. It is this beat frequency that can form the beach sand phenomenon but only on specific dates and times. Why it only shows on specific dates and hours requires a bit more understanding of orbital mechanics, and of course the frequency of gravity is much higher than middle C.

Now imagine that these are gravity waves and that these waves pass right through us and everything around us. Sort of like an invisible field. Like the air around us we don't notice it until it moves. However we can imagine that something is there, because something is holding everything down to earth. Our instruments cannot detect it because it passes through them also, leaving only the evidence of its force. However, like playing the musical note middle C in the above example where it Doppler shifts and becomes a beat frequency there may be times we can detect it, if we open our eyes, and look close enough.

There is a class of instruments that can detect gravity but they must be spinning creating their own Doppler shift. However the results from the experiments have been confusing scientists for years. It

can't be long before they discover that this is what it is. It will not come from LIGO which is a huge super stationary instrument.

Many outside the scientific community now believe the helix electromagnetic wave (like a radio wave) explanation for gravity is correct. The phenomenon was on local news in the gravitational phenomenon was on the front page of the Daily Astorian newspaper on Tuesday June 21, 1994. Interviewed by newscaster Eric Schmidt on the gravity phenomenon by local television channel 6 news on 7/5/1995 Portland, Oregon.

Some want to know what the use of such esoteric research is: Future space travel, beam weapons, tractor beams. I know your first thoughts on this: So I recommend you read the below:

Throughout history great discoveries were rejected. Aristotle thrown in jail for claiming the earth was round. Louis Pasteur claimed that invisible micro-organisms caused disease. Alexander Graham Bell ridiculed for suggesting that he could send his voice down a copper wire. Nichole Tesla the father of the modern electric motor and builder of Niagara electric power plant. These men were ridiculed and scoffed at and exorcised from the scientific community. These are just a few examples the list is quite long. Almost every new discovery of great importance is rejected. This is the state in which gravity theory is in today. I am not the only one who supports this theory, but am the only one with an adequate proof that anyone can see for themselves.

There are many in private research that now feel scientists are on the wrong course -- and we all believe the government and universities are either off course or are covering up the truth protecting their jobs or just fear to speak out. We need to contact our congressmen and stop this errant funding. You can see this phenomenon yourself on the surface of lakes and smooth rivers but you have to separate out the wind affects. Lines often appear on the water of lakes separating the rippled areas from smooth areas and changes in the rippling motions reveal something other than just wind is present. As seen in the beach sand photograph 'synodicgravity.com' The earth's magnetic field is not strong enough to cause the magnetic particles from the old ship wreck to stand on end, the only conclusion is Doppler shifted gravity waves from the moon and earth's orbits. A tremendous amount of work has been done on this.

The phenomenon is real. I attempted to build a theory around what I saw. So even though I've received some confirmation on the helix wave from and it really cannot be anything else. The theory will need some work.

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ADDED Extraordinary.041 file - ITS VERY GOOD and InfiniteTemp.057.DOC on 08-01-2010 ADDED DOPPER CALCULATIONS FROM GRAVIT.BAS FOUND ON U-TUBE. 7-01-2011

<http://youtu.be/kP6i5us9vac> U-Tube Video: "Gravity Wave of the Future 3"

http://www.youtube.com/watch?v=X2o_Jz_GyZs Gravity Heterodyning Video: "Weird Terrestrial Sounds KISS"

PREFACE:

Astronomy is the oldest science, in the sense of a consistent set of mathematical relationships that successfully predict the future, and the other sciences have developed from time to time out of astronomy.

The perfect movement to the scientifically literate dwellers of the coast of the Mediterranean Sea during antiquity was the circle. To that was added, by Descartes during the so-called Scientific Revolution of the Seventeenth Century of our era, the conservation of motion in a straight line, which conservation law was gratefully adopted by Newton as one of the laws of mechanics in the Principia Mathematica, from which modern world science dates.

The combination of these two thoroughly investigated motions, the motion in a circle and the motion in a straight line, produces motion in a helix, an abstract representation of the ridges of a screw or bolt.

By Michael Meo
Portland, Oregon
First Feb 2014

GRAVITY: SYNODIC WAVE OF THE FUTURE



The dark spots are rust particles trying to stand on end, much like iron filings do when sprinkled on a strong magnet. Notice the discolored water in the surf. The rust particles have been pulled out of the sand by magnetic forces and fill the water causing the discoloring. The water almost always has the normal blue tint except during strong events. Wet sand is normally hard and easy to walk upon however during this event the sand and rust particles bridge another making the wet sand soft and puffy.

With all the words written herein even though there are two types a fake and real occurrence, it is not possible, not to believe, this is a gravitational phenomenon. Most of this book is easy to read with minimal mathematics written for the layman.

Of course sand ripples can be formed by flowing water motions, what I have outlined here is something entirely different. Sand patterns can be caused by both water wave motions and gravitational forces. The gravitational sand patterns can be further separated out into gravitational forces pulling from two separate directions (moon and sun), and into Doppler shifted then heterodyned gravitational waves. Normally scientists only relate the sand patterns to wind and wave motions. If heavy particles are present in the sand a sluice box effect occurs during water wave collisions, resulting in a fake occurrence of the sand patterns.

We all know that the moon and sun controls the tides. It is not necessary to be at this beach to witness heterodyned gravitational effects. The effects can also be seen in slow moving river water or lakes but only on certain dates and times. Rippling water visually changes the texture of the surface dramatically at times here on the Columbia River. I drove by every day for months and looked upon the water. The surface was always smooth with normal rippling textures that accompany calm or mild breeze. Then for no apparent reason the surface took on a unusual appearance like broken up ripples popping up and down. Lakes seem to produce these broken up ripples when the air currents are light (air currents are also influenced by heterodyned gravitational waves as well which confuses the study. When the gravity forces are pulling upward the winds pull upward. This is a rare occurrence probably only several times a year but may last for a week or more lasting for 1-1.5 hour intervals with the start time increasing about 30 minutes each day until the event is over. These are related to the ocean tides but on land locked water. Some initial water movement seems to be required as I've never seen this motion in a swimming pool.

However it is difficult to separate the slight breezes (air movements) effects out as they often occur at the same time. Looking for changes in the type of ripple motions is important consideration when the wind velocity is at the very minimum. The author believes changes in the ripple motions on small lakes also is part of this affect (again it is difficult to separate the slight breezes out). It is much more difficult to be scientific with river and lake water ripple motions as it is difficult to separate the wind and water flow conditions out. **With the beach sand iron oxide phenomenon separating the variables out is not a difficult task.**

APPOLOGY TO THE READER:

THIS DOCUMENT A ROUGH DRAFT A WORK IN PROGRESS. THE DAUNTING TASK OF CONTINIOUS REVISION AND ADDITIONS AND THE DIFFICULTY OF THE SUBJECT MATTER HAS RESULTED IN THIS DOCUMENT THAT HAS BEEN PATCHED TOGETHER.

**TODD GRIGSBY
FOURIER SPECTRUM**

TITLE: GRAVITY: SYNODIC WAVE OF THE FUTURE

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ALT TITLES: SYNODIC FIELD THEORY OF GRAVITY AND ELECTROMAGNETISM UNIFIED FIELD THEORY

FILENAME: www:\synodicgravity.com SYNOD2.EXE or SYNODIC.HTML

CONTENTS:

Thesis on Synodic Gravitational Waves. Neo-theory, provides alternative to curved space-time theory. Concrete proof that gravity is a new type electromagnetic wave. This extremely small wave is beyond detection of present day devices but under certain conditions can be easily detected by broad band radio receivers.

Supporting Grand Unified Field Theory. Down to earth quantum mechanics. Answers paradoxes of general relativity. Doppler shifted then heterodyned gravity waves. Verification methods, detection, hypothesis, experiments, gifs, logs, sporadic-E, unidentified radio frequencies, and soliton water waves. Included; Earth-Sun and Earth-Moon Doppler computer programs and travel Guide to phenomenon area.

I did most of this work through an unusual way. See my autobiography (Book three) on the how, when, and whys of this.

I have an Associates in Mechanical Engineering Technology. The theory is incomplete. I welcome assistance to help straighten out the fine points. I would greatly appreciate assistance from someone who has writing skills and is accredited in the field. You will be reimbursed if there is any financial gain. Contact me todd.grig2@gmail.com

If you have an interest in gravity at all, your going to like this one. A video of the phenomena is available for \$24.95. Also Portland, City map and the Oregon state maps (see chapter "Travel Guide"). The basic Doppler computer programs etc. may not be available to download for APS users. They may be ordered by mail however. Moon Doppler requires QB4.5 or better. Moon.bas must run from drive a: (may not be available here).

'Rainbow' computer program Copyright 1992 Todd W. Grigsby: See results in chapter 5.3.

Rainbow is a special computer program that searches for fundamental frequencies in atomic spectra. It then recombines the fundamentals and re-forms the spectra back again using only the fundamentals pairs. It employs equations I derived which are similar to the Hadamard Transform. Rainbow Program: \$6000.00 Revision 744 A work in progress. Runs on windows XP or earlier. A good understanding of QBasic computer language is helpful. Open code To order call: 1- 503-975-2242. Add \$400.00 Pre-installed on XP laptop included.

The gravitational phenomenon was on the front page of the Daily Astorian newspaper on Tuesday June 21, 1994. Interviewed by newscaster Eric Schmidt on the gravity phenomenon by local television channel 6 news on 7/5/1995 at Fort Stevens state park

Computer programs associated with the beach phenomenon:

1. CYCLE.EXE Computer program
2. SAROS.EXE Computer program calculates Saros cycles
3. EARDOP93.EXE Computer program calculates earth-sun Doppler velocities
4. MLTCLK2.BAS Computer program calculates your solar time
5. MOONDOP.BAS Computer program calculates moon Doppler velocities MOONSCHED – See internet.
6. RAINBOW.BAS Computer program solves for fundamental frequencies in the atomic spectrum
7. GRAVIT.BAS Calculates the wavelength of gravity based on phenomenon date Doppler shifts.

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Somewhere along the line in the study of physics it changes from pure waves, to particles and mass, with mechanical attributes. The appearance alters - resulting in confusion, is it a particle, or a wave?

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CHAPTER 1: BEACH GRAVITATIONAL PHENOMENON

A video of the phenomena is available for \$20.00 + \$4.50 postage. The Portland city map and the Oregon state maps are \$10.00 extra. Please see Chapter 5 for travel guide. The Doppler programs are under development. Please excuse the sloppiness of this file, it is under continuous revision. Don't miss further updates. The Oregon Beach can be viewed viva the World Wide Web at two separate locations: KGW.COM or KATU.CITYSEARCH.COM . I am very confident that this is a electromagnetic gravitational phenomenon.

The below programs were developed to attempt to predict Unidentified rf, Sporadic-E (radio skips), and the beach grooves. They must be ordered along with the video tape.

Eardop87.exe (see synodic\doppler directory for Moon Doppler) Earth-Sun Doppler velocity computer program. Executes from DOS. Choose the hardcopy printout for readability.

Moon.bas (Requires Quick Basic 4.5 or Better Language) (may not be available here) Computes Earth-Moon Doppler velocities. (operating-not finished) Please move the entire set of files in Doppler directory to your floppy drive A:\ IT WILL RUN ONLY FROM FLOPPY DRIVE A:\ (root directory) All Moon.bas files end with .1 except aa.bi, aafull.bi, moon.bas, and moon.mak All must be moved to drive A: Choose the hardcopy printout for read ability and Doppler analysis.

Mltclk2.bas Basic program calculates your solar time.

Saros.bas Saros cycle (enter any date and get the next Saros date)

Cycle.bas Integer orbit cycle relationships between moon and earth.

Gravit#6.bas Attempt to determine gravity wavelength.

IF THESE GROOVES ARE PRODUCED BY ELECTROMAGNETIC WAVES IT WILL LAY TO REST THE CURVED SPACE-TIME GRAVITY THEORY!

INTRODUCTION TO BEACH PHENOMENON

1.1: SYNODIC DEFINITION:

Relating to conjunction; esp: Relating to the period between two successive conjunctions of the same celestial bodies.

Ship Wreck Peter Iredale: 46 deg 10 min. 28 sec. N. Lat. 123 deg 59 min. 06 sec. W. Long. GPS

Scientists have spent millions of dollars trying to detect gravity waves, and here it is, right before their very eyes.

As a word of note, this is the best beach to witness the phenomenon. The lack or reduced amount of iron oxide particles on other beaches seems to be the reason why the phenomenon is greatly reduced on them.

On the beach on the Oregon coast at Fort Stevens State Park near Astoria Oregon USA. The sand consists along with the normal sand particles a black paramagnetic particle. The paramagnetic rust particles are assumed to be Fe₂O₃ and are not magnetized.

This magnetic particle in sand can be found on many beaches. If you run a magnet over dry sand the particle is picked up readily and is about 1 to 5 percent (guessing) of the total particles. The particles are most likely rust from the rusting hulk of the Peter Iredale, an English sailing ship which beached in a storm in 1906. The iron skeleton of the ship is still there permanently stuck in the surf and sand. The Columbia river bar is known by sailors as "The Graveyard of the Pacific". This area has claimed an estimated 2000 vessels of all types. Please read the Chapter Travel Guide.

Probably traces of zirconium Ref XXXX

ZIRCON: A REVIEW, WITH EMPHASIS ON WEST COAST RESOURCES AND MARKETS By A. J. Kauffman, Jr and Dean C. Holt UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF MINES.

<http://pubs.dggsalaskagov.us/webpubs/usbm/ic/text/ic8268.pdf>

South of this area, the black sand beaches of Curry County have a high concentration of zirconium. Slightly radioactive, the sand is mined for the manufacture of exotic metals.

On this beach at the water line and during only certain times of the year and day a phenomenon occurs. Best seen on a gradually sloping beach. During a receding wave when the water is only 1 or so inches deep these particles along with the standard sand goes into solution. Due to the unique turbulence that occurs in this receding wave the magnetic particles align them-selves on electromagnetic field lines. The distance between lines (the wavelength) usually is from *12-46 inches.

The magnetic particles are deposited at regular intervals. When the water slowly glides back out to sea a mound and rift is left in the wet sand. When the conditions are maximum, from the bottom of the rift to the top of the mound measures approximately 3\16 inch or so, and are 1 - 1.5 inches wide. One could stumble on them. The black particles form a line attracted to an unusual stationary invisible electromagnetic wave. It is similar to the type of mound and rift that is formed when water flows over a stationary shallow rod (1/8 diameter or so) resting on the sand. A strange "double" water ripple gouges the grooves. First one ripple than about one inch later another water ripple with a deep groove between. Can this double water ripple be produced in the lab? An experiment reveals the results.

The pattern placed upon the beach resembles an interference pattern at times and other times fairly uniform wavelengths. These grooves form intermittently lasting for several hours and longer, wash away then reappear over and over again until the event passes. Appearing then disappearing many times during the window.

Sometimes appearing in patches or covering the entire beach. When the phenomenon is at maximum the wet sand becomes much softer (puffy) and more difficult to walk upon. Much like the before and after changes of rice when you cook it. The window opening will depend on your latitude as well as the date and time. I have developed two methods to attempt predictions. 1. The Doppler method and 2. The Saros cycle method. The gradual slope of this beach combined with the high concentration of iron oxide particles forms a very sensitive detector based upon the domino effect i.e. one very very slight interruption of the normal particle flow within the water produces a domino effect. Combined with the tremendous number of iron oxide particles allows for

the visual effect. Note: The domino effect may not be entirely based on the particles, but also on a very slight water disturbance, (see hypothesis Lenz's Law effect). Strong winds have little or no effect on the forming of the grooves. The phenomena occurs as well on a calm day as a windy day.

The formation releases and instantly disappears when the water flow velocity becomes too great. This can be seen clearly when the receding velocity of the water exceeds the attraction forces of the formation. This beach near Astoria Oregon has a heavy concentration of paramagnetic particles. Traveling 60 miles south I found the particles had reduced a significant amount. The grooves as well were much less pronounced. The Long Beach area in Washington also has a significance amount. This is where I first identified the visual with the physical feeling of the phenomenon (see hypothesis and microwave files on ageing).

An increase in unidentified radio frequencies when the groove patterns began to break up. They are most likely absorbed back into the beach elements when the patterns are regular, thus less frequencies appear. Also the frequencies will remain sometime after the groove formation stops. The radio waves can travel back after the phenomenon leaves the beach sand area. The frequencies shift but there do seem to be some patterns.

Occasionally a barrage or flurry of unidentified wavelengths will appear. Scans were taken from 1 giga hertz to 33 mega hertz.

Hypothesis is the beach acts like a huge transistor or hot carrier diode. The combination of rust, quartz in the sand, and salt water as a conductor enable signals to combine (heterodyne or mix) producing 2 more signals and a host of harmonics. Rust on antenna guy wires is known by ham radio operations to cause heterodyning of signals and is a common problem. An alternate but related hypothesis: Telluric currents also might be partially responsible for the formations. Telluric currents are naturally occurring electric currents that pass through the ground.

The resulting radio frequencies from synodic waves seem to quantum jump to new frequencies. Charging earthly elements up on one wavelength then discharging on another much like a laser or phosphorescent rocks when exposed to black light. This is probably why the beach lines appear at sometimes unpredictable intervals. Without the proper equipment I was unable to determine if this quantum jumping was occurring with certainty. Because the gravity wave pulses on/off it becomes much weaker than the magnetic force. After they Doppler shift and heterodyne, often you can hear this pulsing on the radio scanner. It sounds like a crackle at times, a pulsing, or at other times just heavy static. (See Synodic Radio Waves).

1.2: SYNODIC GRAVITATIONAL SAND PATTERN PHOTOGRAPHS:

These photos are copyrighted. Any use for commercial purposes without prior permission from the owner is strictly prohibited. ALL RIGHTS RESERVED - FOR REVIEW ONLY - NO RIGHTS GRANTED

Location: Fort Stevens State Park, Astoria, Oregon USA. 46.2 N. Lat. 124 W. Long.

For a VHS video tape during formation send \$25.00 to: E-mail and I will give you an address.



DRY SAND PANORAMIC PHOTOGRAPH (From Type 2 Conditions)

Black lines are a concentration of paramagnetic rust particles. This natural detector, provides visual proof of gravity waves. An increase of unidentified radio waves often accompanies this phenomenon. Provides proof for gravitational electromagnetic wave theory and reveals a relationship between the gravitational field and the magnetic field. These patterns can occur only on specific dates and times. They might completely disappear several minutes later. These are not drainage patterns, water always flows across the grooves never down them. A video during groove formation is available. Theory: Doppler shifted then heterodyned gravity waves from the orbital motions of the three sources earth, moon and sun form these grooves. (see Thesis). The gradual slope of this beach was constant unvarying.



WET SAND PANORAMIC PHOTOGRAPH (From Type #3 Conditions)

28 Inch and 33 Inch Groove to Groove Wavelengths on January 3rd 1995. The 1906 shipwreck Peter Iredale (in background) provides an excellent reference point for the phenomenon. These sand grooves are formed by a

unique double water ripple. After remaining for hours the next wave might completely wash the patterns away. This natural detector, provides visual proof of gravity waves. An increase in weak unidentified radio waves which can be detected by standard broad band scanners accompanies the break up of this phenomenon. Proof for gravity electromagnetic wave theory. Reveals a relationship between the gravitational field and the magnetic field. These are not drainage patterns, nor are they the often seen ripples formed by wind blown sand or steady flowing river water, which are much closer together. Water always flows across the grooves never down them. A video during groove formation is available.

NOTE: THE DARK SPOTS ARE IRON RUST PARTICLES TRYING TO STAND ON END. MUCH LIKE IRON FILINGS DO WHEN PLACED ON A PIECE OF PAPER AND A MAGNET IS HELD BELOW



NORMAL CLEAR SAND CONDITION

This normal clear sand condition occurs outside the phenomenon dates as well as in-between its intermittent appearances. Fort Stevens State Park, Astoria, Oregon, USA.

The 1906 shipwreck Peter Iredale (in background) provides an excellent reference point for the phenomenon. Rust from over 200 shipwrecks in the area sprinkle the beach with a abnormally very high concentration of magnetic particles.

Two forces fight another, the in and out water flow motions and the direction of the field resulting in different patterns. (water debth is less than 12 inches). When the two forces water flow, and field direction, align the patterns become very regular as shown in the wet sand photograph. At the time of the wet sand photograph shown the wavelengths of the electromagnetic field were parallel to the water wave front resulting in the nice uniform parallel patterns. This makes a nice photograph but is not always the case. There are quite a few different patterns that appear depending on the angle and strength of the fields present. Some make quite a mess of the beach as can be seen in a video making the phenomenon confusing. Cross hatch, interference patterns, multi-wavelength, and combinations may occur.

The electromagnetic field helps form the beach macro levels (areas from 1 sqft to 10x10 ft. approx). Forming grooves and humps. The two fight another – the water flowing back out to sea attempting to flatten out the sand and the fluxon (sometimes sweeping) electromagnetic field from differing angles. The many different sand patterns make it impossible to connect all the patterns solely to water wave motions.

1.3: TYPE OF PATTERNS After considerable analysis I have found these 3 different ways the patterns can be left in the sand.

Type #1 sand patterns:

Nothing unusual about type 1 patterns. Simply the result of the collision of two water waves. The intersection forms water ripples which in turn leave sand patterns and grooves. Often occurs when moon is lagging or preceding suns location. The water wave is first pulled to shore by one gravity source then pulled back out to sea by the other source. An occurrence 12 hours later, probably due to the same bodies location 180 degrees around the earth or 12 hours after. A straight line alignment passing through the planet. Radio frequency correlation is unknown at this time. The rust particles probably are separated out by a sluice box like effect.

Type #2 sand patterns:

Produced when a single unobstructed water wave flows back out to sea. Something invisible intersecting the water wave produces a ripple and gouges a groove. Have been measured and correlated to radio frequency wavelengths. Overlapping fields and heterodyning make direct frequency to wavelength matches difficult however. The rust particles probably are separated out by a combination of sluice box and Lenz law effects.

Type #3 sand patterns:

Similar to type 2 but produced when water flows both directions. Unobstructed shore waves form ripples when flowing both, in and out to sea. Can be very strong and pronounced.

Hypothesis: Formed by a wavelength relationship with the magnetic wavelength Doppler shifts and or heterodyning results in a "Lenz Law" effect. The rotating thus oscillating electromagnetic wave wave slightly impedes water flow thus lifting a small ripple. The ripple increases in size as the water continues to flow through the stationary electromagnetic wave wave. An accompanying increase in ocean smell has been noted much like the electrolysis of salt water. This occurrence may be more difficult to detect. Logs and VCR tape have this event recorded however. The rust particles probably are separated out by a combination of sluice box and Lenz law effects. Radio signals may be more prevalent with this event. Always scan outside of vehicles or away from large metallic objects.

Three different formation timings.

Predictions based on a combination earth-sun and earth-moon events are hypothesized. Could occur almost any time of year. Computer programs have been partially developed as an aid.

Three or More separate Gravity waves can occur at any given moment.

1. The local gravity wavelength.
2. The suns gravity wave, combine Doppler shift both by orbital separation velocity and by earth's local rotation angle to sun)
3. The moons gravity wave Doppler shifted by its orbit separation velocity alone.
4. The earths gravity wavelength shifted from rotation with respect to the angle to moon.
5. Regional effects occur from nearby mountains (earth's rotational shifts from elevation).
6. Possible Doppler shifting between moon and sun.

NOTE: It has been found the grooves often occur during high and low tide. This would sync it with the sun and moon. (new finding: this is not always true).

As the phenomenon begins to fade away the gap becomes wider and wider. During maximum, the formation width can extend for miles, or as gaps widen reduce to nothing. An increase in unidentified radio frequencies appears when the formation is breaking up.

One interesting part of this phenomenon is the occurrence in small areas where the water has been dragged up the beach a few feet further. This usually occurs just after the high tides. This makes one believe that the tide has brought with it some minerals or even an isotope has been separated out by the gentle gravitational forces. Might this be similar to the centrifuges processing of heavy water or a similar by weight separating action of minerals? NOTE: A simple test of first desalting the water, freezing it, then floating the ice, revealed no heavy water. (heavy water should sink)

Question, is this an attraction for the magnetic properties in the sand? Probably not, as a magnet seems to have no effect DURING the formation. Why? It is probably an elemental attraction of the iron particles which then because it is conductive is able to transmit this energy on the proper atomic wavelengths that provides the carrier wave.

YEARLY OCCURRENCES (window dates)

Absolute timing is unknown. Events occur almost year around. However they appear to be centered around earths apogee and perigee dates.

1.4: DATA ON PAST EVENTS

The grooves are showing up at closer and closer intervals. Thirty-seven days before aphelion the grooves were forming every 1.5 to 2 hours. The beach sand between these intervals was for the most part smooth, without the grooves.

NOTE:

It appears the groove formation occurs often approximately 1 hour before low tide and 1 hour after high tide. (on these dates only).

LOGS on date 01-05-94 through 01-10-94: Astoria, Oregon

I witnessed a very dramatic appearance of the grooves forming in the sand on January 5th - 10th 1994 which I photographed and taped. A limited supply of photographs and VCR tape are available for those genuinely interested. These grooved lines have been appearing for years and are always attributed to wind or wave motion. Not true, these particular grooved lines only occur during specific times of the year! The grooves on the beach appeared as expected but did not gradually change in length as previously hypothesized. Instead they maintained several sets of wavelengths which occurred simultaneously. Usually lasting for several hours.

Several wavelengths were witnessed occurring simultaneously. They often overlapped each other producing a less than perfect pattern of grooves on the beach. During the occurrence, the beach groove formation appeared and then disappeared at irregular as of yet unexplained intervals. Usually lasting for several hours apparently alternating sets of wavelengths. Having as many as *10 wavelengths per set filling the entire beach, quite an astounding sight to see at maximum. Often occurring at high and low tide which is also phased with the moons

cycle. I am surprised I've not heard of this before. * wave stretching was not considered then as well as the buried spiral or log theory which would reduce the count.

The electrical properties of the salt water may be a necessary ingredient. I have traveled down the Oregon coast 60 miles from Astoria and found that the particles are still in the sand in reduced concentration and the phenomenon occurs there but the grooves were less pronounced. (Note: Magnetic particles add to the effect as well as might be a necessary ingredient.)

1.5: SAND POOLS AND SOLITON WATER WAVES:



SYNODIC POOLS PHOTOGRAPHS

Caused by gravitational upwelling, this wide band of pools centered between high and low tide, formed at a re-occurring predictable timing for approximately three weeks. Photo date: 07/15/95 Swirling water lifts the sand and forms thousands of these pools of water. Occurring simultaneously for more than 35+ miles of coast line. Accompanying this unusual swirling water are soliton water waves which aid the pool formation. Unusual perpetual like or self-sustaining ripple motion of the surface water randomly occurs as well. Video during formation is available. Lower Photo: Forming immediately after the pools are type 3 synodic grooves.

There are accounts of moving charged water accounts of moving charged water under certain conditions when combined with faith producing healing effects. See hypothesis. On specific dates and times. Previously explained by tidal effects, not so, I contend, at least not in this case. A accompanying phenomenon that I had previously ignored occurs. This very special phenomenon (although probably seen by many), a natural stirring of the ocean water at the shore line forms thousands of deep pools in the sand by its swirling motion. These pools can be several feet deep and 4 to 10 feet around. A narrow band of these pools can be found between the high and low water line. The west coast beach probably forms these pools simultaneously along its entire length. I traveled about 20 -25 miles north to Long Beach Washington and found the exact same pools forming there. At both beaches the narrow band of pools formed as far as the eye can see (Long Beach is one of the longest beaches in the world). The phenomena I witnessed occurred in shallow water from 3 inches to several feet. Witnessed date: 07-15-95 through 07-30-95 approximately 2 hours after high tide.

There does seem to be a change in the texture of the ocean surface that proceeds this phenomenon. Like a calming of the normal wave like motions. This is witnessed while looking out toward the horizon. Believe it or not, there is also a sound change. The normal crashing white sounds of the surf diminish a perceptible amount. Accompanying with this stirring of the water and pool formation are definitely water soliton waves (on video tape). Also a heavy concentration of marine micro-organisms appeared with this water. Soliton's are waves that appear to be self-sustaining and last much longer than normal waves. I believe soliton water waves were first recorded in Europe in the 19th century, traveling for miles in canals.

The grooves always form on the ocean side of these pools. The soliton waves are small, one to eight inches and 10 to 50 feet long. A regular wave would break and come up onto the beach, then as it began to return back out to sea it would pick up an abnormal velocity for the slope of this beach. After moving outward toward the sea it would pawl to the right bucking the 15-20 mph winds at the time as well as passing through incoming waves and traveling up slight inclines while gaining momentum. The soliton waves would literally fight their way along against obstacles normal waves could not. Jetting out squirts of water from their crest they had quite an unusual appearance. Once they travel outside the formation area they dissipate quickly. The ones I witnessed traveled about 100 - 200 feet or so. Hypothesis: Similar to the Magno-hydro-dynamic drive used in modern submarines is what is pulling the soliton water waves around. ie. a very strong rotating magnetic field that is slowly moving. (Lenz Law)

I have it on authority that these soliton's cannot be produced by the present curved space-time gravity theory. An important observation of the soliton's is, when they move toward the ocean the breaking part of the wave was reversed. For example, a normal wave always breaks toward the shore. While the soliton waves which were big or fast enough to break were breaking toward the ocean while traveling out toward the sea. Large soliton waves are probably responsible for rip tides. About 5% of the total waves for the hour the phenomenon occurred were soliton.

A brief explanation on what is pulling these soliton's along (Theory): The soliton's are pulled by slow moving electromagnetic gravitational fields These are the same gravitational electromagnetic field lines laying down the sand patterns (grooves) except they are slowly moving. Because they are moving the sand can no longer record them, but water can latch on and get a free ride, much like surfing. As the gravitational bodes phases continue to change, the field begins to move to fast for the water to latch on to, and the soliton's disappear. The grooves are formed when the field lines become stationary.

An important item to recognize during the sand pool event is the dirty color of the incoming shore waves. You can clearly see this in the video. It appears something is gripping - latching onto the rust particles and violently pulling them up from the depths of the sand. Filling the water full of particles, discoloring the water and leaving behind huge pits or sand pools. The best way to determine if the rust is being latched onto is, to travel south 50 - 150 miles when this event is occurring. The rust concentration gradually diminishes the further south one

travels. So the sand pools may diminish in size with the concentration. However, there may be several types of this event. Some gravity waves may pull on all the components of the sand and water.

Log excerpt:

NOTE: Long Beach had a very large deposit of a ugly brown organic looking substance which occurred with its pools. This may have been dead micro-organisms washed ashore. What exactly it was has not been verified, no sample was taken there. The video has a very short clip on this organic deposit.

BEACH THEORY SUMMARY: (Abbreviation: em = electromagnetic)

1. The sand patterns can form when the electromagnetic wave field is stationary.
2. The soliton's will appear when the electromagnetic wave field is slowly moving. The pools also form when the electromagnetic waves are moving slow enough for water to latch on which stirs the water thus forming the pools.
3. The beach is clear when the e.m waves are moving to fast for the water or sand to latch on.

There is a transition where the electromagnetic wave waves slow stop then move again. The explanation for the lack of another timing of the pools formation

HYPOTHESIS:

Occasionally two pool formations might occur. Fast - Slow - Stop - Slow - Fast This should represent the electromagnetic wave cycle during the pool formation. From this there may be two separate pool formation timings. One 2 hours after high tide and another sometime near after. Or, there could be two separate pool formations occurring so close together they cannot be discerned apart. Most likely the latter is the case.

It is easier to see the grooves when the tide is out so pick up yourself some tide tables there at the beach if you plan to go to Fort Stevens State Park. Bring your umbrella, rubber boots, and warm rain gear. The Oregon coast is known for its cold rainy weather.

Sand particle size is extremely fine at this beach average .005 inch diameter. The iron oxide particle is smaller yet. River sand definitely would not work well. There are very subtle forces at work here.

The local high tide isn't caused by the moon (& sun) being directly overhead, rather by the "dragging" action of these bodies on the oceans. When the slight rise, but massive volume, of water is brought up short by a coastline, the tide rises. Eventually the drag eases off (as the Earth turns), "letting go" of the water which falls to a low. The shape of Earth's coastlines is what causes the tides to be so erratic (consistent and forecast able for one location by empirical means only!).

1.6 MEASURING GROOVES (How To Measure Groove to Groove Wavelength:)

NOTE: The term 'wavelength' here is used loosely. However occasionally there does appear to be a radio frequency wavelength match to the groove to groove distance. Imagine large coils of spirals buried with in the sand at different angles with various amounts exposed much like a bunch of logs buried to different levels. You can only see the widths (the grooves) so the measurement is dependent upon how much of the coil is buried. Sometimes the grooves extend 100's of feet maintaining their position from one wave to the next as though something stationary was forming them. Something impeding the normal flow of water remains in position

wave after wave but slowly migrating until the forces pull it apart where by it grabs hold in another nearby area. Use the local tide table, the phenomenon is easiest to witness between high and low tides.

Some common approximate distances from groove to groove:

12.3 inch 14 inch 18 inch 20 inch 24 inch 26 inch 29 inch 30.5 inch 46 inch

Divide 11803 by the groove to groove distance to find frequency in mega Hertz.

Note: Not always applicable, due to the quantum transition level emissions (hypothesis). The wavelength of the level is rarely the emission wavelength. Easiest to look for the increase in rf coinciding with the beach phenomena.

Radio frequency relationships found (brief).

386.025 MHz = 30.5 inch groove

256.725 MHz = 46" 10-30-94 12pm the only carrier between 350-200 mHz

397.325 MHz = 29 inch groove

Please note: (Abbreviation: rf = radio frequency)

Regarding: The exact groove measurement to frequency correlation. Often it is difficult to make exact frequency to wavelength correlation. The groove patterns are often formed from the heterodyning of 3 different wavelengths. The resulting groove dimensions stretch from one wavelength to another and another (Visible results of the heterodyning process). This makes the measurement to frequency match difficult. Another factor is the immediate re-absorption of the wavelength resulting in very weak signals. Many other accompanying radio wavelengths from quantum jumps appear in rf but not as sand grooves. Another rf relationship might be found in the snapping apart of the heterodyned waves. This emission should correlate to the difference between the two grooves that are heterodyning. Use of the energy level transition jump method to find frequency relationships should be helpful. i.e. The difference between groove to groove dimensions of stretched grooves may reveal the radio frequency (the corresponding photon).

Standard radio frequency emissions cannot duplicate the groove formation. This is due to the alternation of the poles during normal RF propagation. A standing wave may however. These grooves are probably formed by an unusual type of rotation of the polarity of these waves.

You should find the groove to groove distance maintain specific sets of particular dimensions. Even recognizing certain patterns and sets. For example the 12 inch often occurs alone. The 18 - 24 form together. The very wide often occur alone. One must be determine that they actually formed at the same interval. Sets found on the entire beach from high to low tide may vary. Try to estimate which ones formed together at the same time.

8.7 SYNODIC BEACH PHENOMENON THEORY: Also see chapter on THEORY.

Gravitational waves from the three heavenly bodies Earth, Sun, and Moon are each Doppler shifted from their planetary motions. This results in 3 different temporary wavelengths depending on each body's present movements in relationship to one another. Using the beach as the heterodyning area. When two separate Doppler shifted waves are dwelling (remaining similar) The heterodyned electromagnetic wave (electromagnetic wave) wave remains geo-stationary.

Repulsion of the salt water may form the water ripple. This results in the particle line and the immediate groove behind it. The repulsion comes from the Lenz's law effect, or similar to moving a shorted turn (the saltwater) across an electromagnetic field line.. When a slight off-syncro of planetary motions occurs, soliton's will form. Why would the grooves remain stationary in 1 local area for extended periods (minutes to hours)? See photo 2 pools.gif.

Hypothesis: The earth with its much stronger local static field temporally holds the formation stationary. Concentrations of deep underground mineral deposits allow the grooves of the pools gif to occur always in the same area.

EVAPORATION THEORY: (also see hypothesis chapter)

Synodic Doppler velocities that add by $F_n = f_1 + f_2$ pull water upward into the atmosphere greatly increasing evaporation rates thus affecting the regions weather.

Gravity is the result of a unique electromagnetic wave. Its special attributes allows similar electromagnetic wave waves to attract one another.

The increase of natural radio frequencies which can be detected by standard wide band scanners occurs simultaneously with the phenomenon. The Doppler velocities and planetary angles when combined should relate to these signals.

Soliton's are formed when the earth sun and earth moon separation velocities are just slightly out of sync. A slight difference in these Doppler gravitational waves forms a heterodyned electromagnetic wave which follows this slight shift will pick up water waves, tugging them along.

WATER WAVE AMPLIFICATION:

It is well known that the moon pulls on water causing the tides. Less apparent however and not well recognized it also pulls on all mass including the atmospheric air and the water in clouds. Heterodyning of gravitational waves at specific times slows down the gravitational waves sweeping across the earth's surface and enables effects not seen in simple tidal six hour intervals

Abnormal movements in small water ripples occur for no apparent reason. A close study of rivers and lakes reveals that at certain times something other than wind is causing or enhancing minute ripple motions.

Accompanying lite wind conditions (at specific times) the water ripple motions on small lakes or ponds and smooth flowing rivers the ripple motions observed are amplified by Doppler shifted and heterodyned gravitational waves. Self-sustaining rippling motions more than the light wind could produce and appears to enhance or amplify the ripple motions. This effect can also be seen on a calm ocean sea conditions. This condition was observed out beyond the surf just before the sand pools event at Fort Stevens State Park as well on small lakes and smooth flowing rivers when the wind conditions were light and not sufficient to form the ripples alone. This related phenomenon is apparent in two hour cycles and the six hour tidal cycle and is altered by the position of the moon and or sun. The sky position of the moon may minutely drag the ripple wave crests in other than just straight down river. In the case of lakes and smooth flowing rivers, look for changes in ripple motions in both two hour and six hour cycles. Unless one has a very critical eye a video camera is required to record the changes. However the effect at times can be dramatic and easy to identify. Here one must separate out how much rippling a light wind would produce. In the case of a calm river that flows east to west (same as the earth's rotation) at time when the moon and or sun both are in the easterly direction the ripples convolute and the crests will slightly convolute to the easterly direction or upstream direction (toward the pulling bodies the sun and moon). This direction is contrary to the normal direction a water ripple will take when simply flowing down stream. The Columbia River along Marine Drive is well suited for this analysis. Several river cams are helpful but a personal view is best. <http://zappers.camstreams.com/>.

Hypothesis:

Sunspots gravitational upheaval producing water spouts here on earth. When vertical velocity of sunspot is in accordance with proper planetary motions. i.e. in sync

This natural detector, is many times more sensitive than a coherer (an early radio signal detector) provides visual proof of gravity waves. An increase in unidentified radio waves which can be detected by standard broad band scanners accompany this intermittent phenomenon.

THEORY:

Doppler shifted and heterodyned gravity waves leave these grooved sand patterns from the synodic timing of the earth and moon orbits. Heterodyning results in the long wavelengths seen here.

Either or both a sluice box like separator or the Lenz Law effect separates the iron particles out forming the lines. It ends up forming its own sluice box through the impediment of flow caused by stationary field lines which thereby increase the effect. A stationary alternating electromagnetic wave repels the conducting salt water by the Lenz Law effect forming a ripple and gouging the grooves. The oscillating field repels the rust particles as well forming a barrier which blocks the particles which are in solution with the flowing water. Hence, the iron oxide particles are left on the shore side of the grooves.

Moving water may be required to Doppler shift the water to the proper frequency enabling the effect. The phenomenon appears to stop when the water moves too fast. The rust particles may increase the effect as beaches with much less concentration have a greatly reduced groove formation.

These timing of the appearance of these patterns vary from year to year. They might completely disappear several minutes later. These are not drainage patterns, a video during groove formation is available.

THEORY: "GRAVITY WAVE INTERFERENCE"

Much like Newton rings or light interference from a grating. When all the factors producing the interference remain constant, the fringes (or synodic grooves) remain stationary. When one or more factors change the fringes move. A slow movement produces the swirling motion found in the "Pool" photograph (gif). Faster movement produces the clear sand conditions. This should be clearly seen by the data produced from the two synodic Doppler computer programs. During the period between 1995 the pools formed twice daily approx 2 hours after high tides.

See hypothesis:

RF may be partially absorbed when Type 2-3 sand groove formation is at maximum. This would explain the sometimes lack of corresponding groove to groove wavelength match to radio frequency. Radio frequencies usually re-appear when the grooves begin to break apart.

See logs for wave stretching from one wavelength to another. 12-29-95. Groove to groove dimensions vary approx xx% at times. This reveals the flexibility of attracting electromagnetic waves. Both waves flex meeting somewhere in between their sizes. Question is this from stretching or from the "buried log" wave description.

See also Planck's constant in the Grand Field Theory file. When two electromagnetic waves combine then break apart they emit a third wave. Fn is the third wave and can be detected by rf equipment.

During both formations sand and rust and rock particles are pulled up more readily. This is apparent as the shore water takes on a dirty color in pocket areas.

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INTRODUCTION

This phenomenon has been correlated to Doppler shifted then heterodyned (mixed) gravitational frequencies providing definitive proof gravity is an electromagnetic wave. The unique properties of the sands in this area

enable heterodyning of gravitational waves on date and time relationships from the orbits of nearby heavenly bodies. When one is able to discern the difference between the occurrences of sand ripples formed from simple water flow motions, from the sand ripples formed by heterodyned gravitational waves, enlightenment takes place. Any emission, from a heavenly body, is Doppler shifted from the continuously varying separation velocity due to their elliptical orbit. This of course includes gravity. Found within this document is mathematical proof using actual Doppler shifted planetary velocities computes the gravitational wavelength at approximately .00228 Angstroms. Note: The whistler or static packet as described within this document will be easiest to associate to the phenomenon allowing a more accurate wavelength calculation.

There has been some confusion in what is causing the sand patterns. The author wants to make it clear it is known there are two types, a fake formed by simple water movements and a real occurrence formed by gravitational waves.

OVERVIEW

Astronomers try to detect perturbations in existing gravitational waves generated by catastrophic stellar events such as supernovae or by pulsars. These gravity wave detectors look for perturbations in the existing field. In this article the author will present a natural gravity detector that detects the waves themselves, not just the perturbations as in current detection methods.

The 2008 article in Infinite Energy magazines "Possibility for the Detection of Gravitational Waves by the Electrogravitic Property of a Dielectric Material" by Takaaki Musha. ⁽¹⁾ Takaaki built a neo gravity wave detector by applying the theory by B.V. Ivanov from his studies of the Biefeld-Brown effect by T.T Brown.² Takaaki's detector employs a piezoelectric transducer for the detection of the gravitational wave perturbations. Takaaki has detected perturbations from the pulsar in the Crab nebula.

IN THIS ARTICLE

Unlike current detectors, this natural detector detects the much stronger gravity fields from closer bodies, earth, sun, and the moon. This natural detector detects local gravity waves themselves, not the perturbations of distant stellar events light years away. Similar to Musha's experiment, quartz found in the sand is piezoelectric.

Fort Stevens State Park near Astoria Oregon (46 deg 10 min. 28 sec. N. Lat. 123 deg 59 min. 06 sec W. Long. GPS.) Near Astoria Oregon, this historical area is near the end of the Lewis and Clark trail, a trek of discovery across early America. The Columbia River bar is known as the "Graveyard of the Pacific" due to hundreds of shipwrecks. A large number of underwater mines were placed here during World War II. There is a high concentration of rust particles in the fine sands, presumably from ship wrecks and navel activities. A magnet readily picks up rust particles from the dry sand. The rusting hulk of the Peter Iredale, an English sailing ship which beached in a storm in 1906 can be seen in the background of the photographs.

It took some time before the author became convinced that there was something other than just the usual ripples in the sand forming here. Identifying when they were just sand ripples, or something else was in effect. Only close study of video records, and being there at the right time will convince those with doubts. When the sand patterns are forming, they appear simultaneously for over 40 miles of coastline.

TWO TYPES: THE FAKE AND THE REAL

Since it is easily to dismiss this phenomenon as forming from simple water flow motions, the author wants to be certain without a doubt it is known that there are two types of conditions that form the sand patterns.

Many of the patterns are formed by the collision of shore waves coming from opposite directions. The collisions of opposing water waves produce a sluice box like effect. Prospectors use sluice boxes to separate gold from river sand. The sluice box like effects mimics the formation of the sand patterns by depositing the

heavier rust particles during the collision. The slowing of the water during the collision allows the heavier rust particles to drop onto the surface of the sand forming a dark colored line of rust.. In addition the water ripple digs a groove in the sand resulting in patterns that are nearly identical-but not so. The sand remains hard and easy to walk upon unlike the sand when the phenomenon if forming by heterodyned gravitational waves. This is not a part of the gravitational phenomenon as described here.

CONDITIONS FORMING RIPPLES ON A GRADUAL SLOPE OF SAND:

The phenomenon is concerned only with low profile shore water waves from 1 to 4 inches (2-10 cm.) deep. Only the last part, the exhausting of the water wave as it approaches the shore is of importance.

Unlike river sand ripples formed by constant velocity water flow in one direction only.

Beach wave motion is different. The water flow is back and forth and the velocity goes from a maximum to zero then reverses direction. The back and forth washing like motion working alone on a gradual slope results in clear sand conditions Figure 4. The un-restricted (no collisions) back and forth washing motions of a small shore line waves on a gradual slope will flatten out the sand.

As a single water wave comes in, the water flow stops and lays out flat on the *gradual slope* of this beach, then the water begins to flow back out to sea. It is important to note the surface of the water has laid out flat. At this point if there are no other factors present such as the collision of two waves or stationary electromagnetic fields the particles of sand and iron oxide are evenly distributed and results in clear sands (figure 4).

There are several ways to determine when the patterns are forming from gravitational waves. We can be certain the sand patterns are caused by heterodyned gravity waves when the rust particles are standing **on end** (See figure 1), also when the timing of the water waves is such that when the incoming waves are not colliding with the outgoing waves. The sand pools are part of this phenomenon, and when the surf normal blue hue becomes deeply discolored by black iron oxide particles.

To keep from confusing the actual phenomenon from the appearance of lines in the sand from simple wave collisions, as in type one patterns. Two opposing direction water waves often occur causing a collision and dropping the particles enabling a stationary water ripple at the point of collision and leaving a dark line in the sand. The type one patterns may be Doppler related but are not considered part of the phenomenon as described. There may be no associated radio frequency match with this type. It is important to locate dates times when incoming waves are not colliding with outgoing waves (these are water waves that are 2 – 4 inches high only and are not part of the crashing surf).

Figure 2 shows the results of alignment after the sand has dried. These were formed by type #2 conditions. Drying causes the domains to tip over (adhesion force of the water molecule). The patterns arranged in the sand are immediate and visual due the forming of liquid slurry of fine quartz, and rust particles suspended in salt water. A slight agitated motion allows the particles to float in the slurry and self-align leaving the visual pattern.

The particles which are free to orient and align completely unrestricted due to the slurry which suspends them temporarily, until they drop into position. This is similar to a compass needle floating in water, only free to rotate in three dimensions. Floating in this lightly agitated solution, the particles are in pseudo-weightless suspension.

Figure 1 shows the alignment immediately after it occurs when the sand is still wet. Proof a strong electromagnetic field is present, the black patch areas are paramagnetic particles trying to stand vertically on end, much like iron filings do when placed on a paper and a magnet is held below.

THE CORRECT TIME:

Most events are centered to either side of earth's perigee and apogee dates. The best time to witness the most and the strongest events are one to three weeks to either side of earth's perigee and apogee dates, the beginning of the months of January and July. Because the events occur at synodic intervals, the author has named the phenomenon "Synodic Gravitational Sand Patterns".⁽³⁾

The proper date/time to witness is when the sun and moon are in the same relative position in the sky (see Doppler Calculation Example) I.E. they are both pulling from the same direction. At this time a single very small shore water wave will be occurring without collisions. The phenomenon has an orbital Doppler and a diurnal cycle.

DESCRIPTION OF FORMATION:

This phenomenon has been overlooked because sand ripples can be formed by other methods. Not to be confused with normal ripples forming in sand, the means forming the patterns have been separated into three distinct categories.

Type #1: Nothing unusual about type #1 patterns. Simply the result of the collision of two water waves. The intersection of the two opposing flows forms a water ripple leaving sand patterns and grooves. Sluice box like effects separate the black rust particles out. The collision slows the water flow allowing the heavier iron oxide particles to fall out of suspension leaving a dark line. The wet sand remains hard and is easy to walk upon. This is not part of the gravitational phenomenon as described in this document.

Type #2: Produced when a single unobstructed water wave flows back out to sea. Something invisible impeding the water flow produces a ripple and gouges a groove in sand.

Type #3: Similar to type #2 but produced when water flows both directions. Increased field strength allows the formation to appear in the higher velocity incoming waves as well as the outgoing water waves. Forces forming them appear much stronger and grooves are more pronounced. Strong enough to cause rust particles to stand on end. Wet beach sand becomes very soft and more difficult to walk upon. Both #2 and #3 have been measured and correlate to unidentified radio frequencies (when one knows how to measure the groove to groove wavelength).

Formation of type #2 and #3.

During a receding wave, when the water is only one or so inches deep, these particles along with the standard sand goes into solution. Due to the unique turbulence that occurs in this receding wave the magnetic particles align themselves on electromagnetic field lines. Directing attention on lines that are uniform and between 16 and 30 inches (.41 - .76 m) apart. These are the ones most easily identified as having come from something other than just flowing water. The electromagnetic field lines as described here cannot be from earth's magnetic field, as the event is intermittent.

The black colored paramagnetic iron oxide particles are deposited at regular intervals. When the water slowly glides back out to sea, a mound and rift are left in the wet sand. When the conditions are maximum, from the bottom of the rift to the top of the mound measures approximately 3/16 inch, and 1 - 1.5 inches wide with a large hump between the grooves. One could stumble on them. The black rust particles form a line attracted to an unusual stationary invisible electromagnetic wave. It is similar to the type of mound and rift that is formed when water flows over a stationary shallow rod (1/8 diameter or so) resting on the sand. An unusual "double" water ripple gouges the grooves. First one ripple appears than about one inch later another water ripple with a deep groove between.

The pattern placed upon the beach resembles an interference pattern at times and other times fairly uniform wavelengths. These grooves form intermittently lasting for several hours and longer, wash away then reappear over and over again until the event passes. Appearing then disappearing many times during the window.

Sometimes the patterns appear in patches or cover the entire beach. When the phenomenon is at maximum, the

wet sand becomes much softer (puffy) and more difficult to walk upon. Much like the before and after changes of rice when you cook it.

Several conditions are in effect forming the detector.

The gradual slope of this beach combined with the high concentration of iron oxide Fe_2O_3 particles forms a very sensitive detector based upon the domino effect. Very slight interruptions of the normal particle flow within the water produces this domino effect. Quartz is a semiconductor found in transistors and the rust on antenna guy wires is well known by ham radio operators to cause interference by heterodyning of signals. Similar to a coherer (an early device used to detect radio waves), the particles cohere then align on the electromagnetic field. Combined with the tremendous number of iron oxide particles allows for the visual effect.

The phenomenon occurs as well on a calm day as a windy day. The slope of the beach may alter slightly through the seasons. A startling visual condition will occur when the water flow velocity increases beyond the attraction force on the iron particles. While watching type #3 patterns forming under the shallow water of a receding wave. Then, almost if by magic, they instantly disappear, under the fast flowing water leaving clear sands instead of the pattern. The formation releases and instantly disappears when the water flow velocity becomes too great. This only occurs during exceptionally strong events, when combined with an abnormal water flow velocity. **A strong smell of chlorine was in the air during an exceptionally strong event.**

Chlorine would result from electrolysis of the salty sea water and the separation of NACL.

This beach near Hammond Oregon has a heavy concentration of paramagnetic particles. Traveling 60 miles south the particles had reduced a significant amount. The sand pattern grooves as well were much less pronounced. The Long Beach area in Washington also has a significance amount.

Associated radio frequencies have been correlated and accompany the beach patterns. Having unusual sounds like, pulsing, snaps, crackling, pop or static. Some of these signals are quite strong, and some frequencies correlate directly to groove to groove length measurements taken off the beach. The strongest signals have a clear pulsing (30-40 Hz.) sound when heard on a broad band scanner. The signal can be heard on both AM and FM.

There is an art to scanning for these. Man-made frequencies must have been identified, as well as inherent peculiarities of the scanner itself. A barrage of weak (just above the background level) unidentified radio frequencies were recorded when the groove patterns break up into erratic multi fold patterns. They are most likely absorbed back into the beach elements when the patterns are regular. Thus, fewer frequencies appear. Assuming the radio waves travel back after the phenomenon leaves the beach area, is why the rf. remains sometime after the groove formation stops. The frequencies shift but there does seem to be some patterns. The most common groove to groove distances were between 18 and 33 inches (.46 - .84 meters). On the date (1995) the scans were taken there were only a few television stations and radio AM and FM in this semi-remote area. The entire pacific ocean on one side was a radio dead zone and yet many unidentified signals were present, some quite strong. Birdies (signals inherent to the scanner) were excluded.

The resulting radio frequencies from gravitational synodic waves that have heterodyned here seem to quantum jump to new frequencies. Charging earthly elements up on one wavelength then discharging on another much like phosphorescent rocks, when exposed to black light. Without the proper equipment the author was unable to determine if this quantum jumping was occurring with certainty.

SAND PATTERNS THEORY Given assumption: Gravity is an electromagnetic wave.

A theory unfolded after years of study, based on data from radio scanner, and video logs. Gravity waves emitted from sun and moon, Doppler shift from elliptical orbital motions, then heterodyne in the beach sand slurry along with Earth's gravity waves. A hypothesis is the beach acts like a huge transistor or hot carrier

diode. The combination of rust, quartz in the sand, and salt water as a conductor enable multiple Doppler shifted electromagnetic waves to combine (heterodyne or mix) producing two more signals and a host of harmonics. In this case it makes them appear much larger. (Ham radio operators have long known rust on antenna guy wires is a common source of interference from heterodyning of signals). Quartz also possesses piezoelectric properties. The sand patterns appear when the field lines dwell, which produces the stationary pattern. In a dramatic video, soliton water waves appear, when the electromagnetic field slowly sweeps across the area.

The event can be associated with elliptical orbit Doppler relationships of earth and, moon orbits, as well as diurnal cycles. Elliptical orbits are the source of Doppler shifts in gravitational frequencies. Near the dates of earth's aphelion and perihelion, Doppler shifted velocities near a dwell position. At this time earth's separation velocity, with respect to the sun, passes through zero then reverses. The aphelion and perihelion of the moon is similar.

SAND POOLS

Figure 3 shows another related spectacular event. On specific dates and times this less often seen event occurs. A tremendous up pulling rips the rust out of the sands forming large pits or sand pools in the sands. The water full of black iron oxide particles becomes deeply discolored. A narrow band of these sand pools form simultaneously for approximately 40 miles due to the huge amount of rust in this region.

The sand pools event recurred at predictable intervals for approximately three weeks, and then disappeared. Swirling water lifts the sand and forms thousands of these pools of water. Soliton water waves accompany the unusual swirling water, as well as perpetual like or self-sustaining ripple motions. Soliton's are waves that appear to be self-sustaining and last much longer than normal waves. The pools can be several feet deep and four to 10 feet across. The phenomena occurred in shallow water from three inches to several feet deep. Date: 07-15-95 through 07-30-95 approximately two hours after both daily high tides. A striking change in the texture of the ocean surface precedes this phenomenon like a calming of the normal wave like motions. This is observed while looking out toward the horizon. The normal crashing white sounds of the surf diminish by a perceptible amount.

The soliton waves produced during the sand pool event are small, one to eight inches high and 10 to 50 feet long. A regular wave would break and come up onto the beach, and then as it began to return back out to sea it would pick up an abnormal velocity for the slope of this beach. After the soliton moved outward toward the sea, it would pawl to the right bucking the 15-20 mph winds at the time as well as passing through incoming waves and traveling up slight inclines while gaining momentum. The soliton waves would literally fight their way along against obstacles normal waves could not. Clearly something was pulling them along. Jetting out pencil size squirts of water from their crest they had quite an unusual appearance. Traveling 100-200 feet, once outside the formation area they quickly dissipate. An important observation of the soliton's is, when they move toward the ocean the breaking part of the wave crest is reversed. For example, a normal wave always breaks toward the shore. While the soliton waves which were big or fast enough to break were breaking toward the ocean while traveling out toward the sea. About 5% of the total waves for the hour the phenomenon occurred were soliton.

SAND POOLS AND SOLITON THEORY

The author formed this hypothesis on what is pulling the soliton's along: Similar to the Magno-hydro-dynamic drive of silent propulsion submarines. They are pulled along by very strong slowly moving electromagnetic fields produced by heterodyned gravitational waves. These are the same gravitational electromagnetic field lines laying down the sand patterns (grooves) except they are slowly moving. Because they are moving the sand can no longer record them, but water can latch on and get a free ride, much like surfing. As the gravitational bodies phases continue to change, the field begins to move to fast for the water to latch on to, and the soliton's disappear. The grooves are formed when the field lines become stationary. An important item to recognize

during the sand pool event is the dirty color of the incoming shore waves. Clearly seen on video, it appears something is gripping - latching onto the rust particles and violently pulling them up from the depths of the sand. The rust concentration gradually diminishes the further south one travels. So the sand pools may diminish in size with the concentration. However, there may be several types of this event. Some heterodyned gravity waves may pull on all the components of the sand and water.

Evidence the water soliton waves are pulled along by a slow moving electromagnetic field. Sand grooves which record stationary electromagnetic waves from a dwell of synodic movements, occur on either side of the pool formation times. See lower photo in figure 3.

RELATING THE PHENOMENON TO GRAVITY DOPPLER FREQUENCY SHIFTS

The appearance of the sand patterns correlates to a complex relationship of the earth's orbit, rotation, tilt, and Lat. Long as well as the moon's orbit. The most frequent and strongest events are centered to either side of earth's apogee and perigee dates. Events of the phenomenon may occur at almost any time of the year by way of the moon's orbit combined with the earth's orbit, and earth's rotation tangential velocity with respect to these bodes. These dates are much more difficult to predict however.

A brief outline of the Doppler shift sources that must be accounted for:

NOTE: TOPOCENTRIC VELOCITIES ARE REQUIRED. Topocentric is a system of celestial coordinates with its origin at a specific point on earth's surface. **The below geocentric velocities were given for reference only.** See Doppler calculations for topocentric velocities.

1. Earth's geocentric orbital separation velocity with respect to the sun varies from +1790 kilometers per hour then reverses direction becoming a negative value. This velocity becomes zero at aphelion and perihelion. This is a separation velocity not orbital velocity.

2. Earth's tangential velocity component with respect to both the sun and moon. Earth's tangential rotational velocity at the 46th parallel: 1165 km/hr. This rotational velocity with respect to the sun cycles from zero at noon and midnight to its maximum at 6:00 A.M. and 6:00 P.M. solar time. This is a positive value between midnight and noon and negative between noon and midnight.

3. The moon's separation velocities with respect to the sun are another complex variable that must be accounted for.

Thus, each body has a continuously varying gravitational Doppler shift from their orbital motions. The gravitational Doppler shifted frequencies heterodyne (add and subtract) producing new much larger wavelengths. The paramagnetic rust particles are attracted to the electromagnetic field lines.

The appearance dates involve determining when the topocentric Doppler velocity is dwelling. When the resulting field is momentarily stationary, patterns are recorded in the beach sands. When the fluxion field slowly sweeps across the area, soliton water waves occur. Establishing when the electromagnetic flux becomes momentarily stationary requires precise astronomy topocentric computer programs.

Studying the sand patterns in depth, the author discovered they are formed by helix (rotationally polarized) electromagnetic waves. Imagine a bunch of tree logs buried in the sand to various depths and angles. This illustrates many helices and the patterns left on the beach. These waves have a special property. They rotate or spin. The waves cinch up, like the threads on nuts and bolts. They also have elastic like properties, they auger and slip. Similar to a propeller of a ship in water, they transmit a force. The pulsing on and off of gravity waves makes it much weaker than the magnetic force.

The magnetic component of these electromagnetic waves may be appearing in the dark areas of the wet sand photograph (figure 1). The magnetic and gravity fields are different wavelengths thus they do not react. Heterodyning of the Doppler shifted wave's produces on certain dates a wavelength that is the same as found in

common magnets and the visual occurrence of this phenomenon appears. This would be the reasons why a multitude of radio frequencies of different wavelengths can be picked up that do not measure the same as the groove to groove measurements taken off the beach.

DOPPLER CALCULATION EXAMPLE

NOTE: Only one heavenly bodies source of Doppler shifted gravity waves are required for heterodyning, the Earth's gravity field provides the second source. Considering multiple Doppler shifted sources from all three, sun, moon and the earth makes the predictions much more complex. THE BELOW CALCULATION ARE FOR SUN/EARTH ONLY.

THERE ARE 3 WAYS THE DOPPLER SHIFTED SOURCES CAN HETERODYNE

1. Earth w/Sun
2. Earth w/Moon
3. Combination of the three sources.

'The following calculations were done to establish a point of reference'. By working backwards and using trial and error method, the author arrived at the gravitational wavelength used in the calculations. 'Gravit.bas' computer program by the author was incorporated in the trial and error calculations. Trial and error gravity wavelengths are inserted in the program until it matches the results found at the beach at given time/date. The separation velocities used in the equations are approximate values. More accurate values will be required. See the example below.

January 3rd 1995, 17:00 hrs. solar time (see figure 1) was used to calculate the below example. On the date chosen for the example, the earth/sun Doppler value held (dwell) at a constant value (1083 km/hr) for approximately one hour. On this date/time the moon location was: Horizontal azimuth: 38 degrees, Altitude: 23 degrees (as astronomer's measure not navigators). This places the moon in a similar direction in the sky as the sun. The author believes results in the single water waves required to satisfy 'type 2' and 'type 3' conditions. The bodies are not in perfect alignment but the pull from the two sources are in a similar direction reducing the possibility of wave collisions. As it will be shown all factors add up providing definitive mathematical proof. The main factors are an associated dwell of the topocentric separation velocities, and a relative sky position of both the sun and moon. Topocentric separation velocity is calculated using your latitude longitude position and requires a precise astronomy computer program.⁴

The object here was to determine if the correct Doppler shifted wavelengths were present at this date/time that match the patterns found on the beach as well as the frequencies found in the radio spectrum, as well as determine if a gravitational wavelength might be calculated from the results. As you will see, all the data correlated correctly with the findings resulting in a good conclusion.

For simplicity, moons gravitational frequency will be ignored for this calculation as only the earth/sun separation velocity was dwelling.

RELATIVISTIC DOPPLER EFFECT EQUATIONS:

$$f = \text{Doppler Frequency} \quad f_0 = \text{Source Frequency}$$

Receding velocities (source and observer are moving away):

$$f = \sqrt{\frac{c - v}{c + v}} f_0$$

Approaching velocities (source and observer are moving toward each other):

$$f = \sqrt{\frac{c + v}{c - v}} f_0$$

NOTE: THE BELOW REQUIRES DOUBLE PRECISION - THE CORRECT ANSWER CANNOT BE ARRIVED AT WITHOUT DOUBLE PRECISION.

The 'D' represents the digits held within the computer memory but not shown.

The Double Precision limit used in the calculations: max +308 min -324.

Calculating by working backward:

If we assume the heterodyning of earth's surrounding frequency with the sun's Doppler shifted frequency produced the 28 inch (.71 m) beach grooves as found in figure 1, then the frequency = $c / .71 = 422.5$ MHz. Thus this frequency is assumed to be the resultant of subtracting the two body's frequencies (Note: Signal frequency was one of several present at this time and date).

Assuming a gravity wavelength of .00713 Angstroms (**arrived at by trial and error by incorporating the below**). .00713 Angstroms converts to 4.204662777451454D+20 Hertz.

The final calculation is as follows:

At 17:00 hours solar time January 3rd 1995, the earth/sun topocentric velocity dwelled at 1083 km/hr.

ERROR

The earth/moon topocentric Doppler was moving from 736 km/hr to 962 at this hour so will not be considered.
January 3rd 1995, 17:00 hrs. solar time UTC: Jan 4th 1:03 am

(note: the topocentric separation velocity dwell is the result of adding the earth's rotation to the earth's/sun's separation velocity. At this date and time the velocities added in such a way that the Doppler shift remained the constant value 1083 for approximately one hour).

Inserting the trial gravity frequency and velocity into the receding Doppler equation:

$$f = ((c - 1083\text{m/s}) / (c + 1083\text{m/s})) ^ .5 * 4.204662777451454\text{D+20 Hertz.}$$

$$f = 4.204662777447235\text{D+20 Hertz.}$$

Subtracting the sun's Doppler shifted frequency from earth's stationary frequency.

$$f = 4.204662777451454\text{D+20} - 4.204662777447235\text{D+20} \quad (\text{Requires the missing digits, the correct answer is given below})$$

$f = 421,920,768$ Hz or 421.9 mega Hertz (Comparable to the groove to groove distance and a radio frequency found at the time).

The fact there are two groove to groove wavelengths simultaneously appearing on the beach indicates there are either two gravity wavelengths, or the beach elements are absorbing then re-emission through quantum jumps, as described previously. The earth/sun Doppler shift in combination with the earth's rotation velocity at the 46th parallel passes through zero approximately every 12 hours. The Doppler frequency from the sun passes through zero (reversing direction) twice daily when earth is near apogee or perigee. At this time the earth's topocentric tangential rotation velocity relative to the bodies becomes the dominate velocity factor. This information was taken from Doppler computer programs the author incorporated in his studies.⁴

The 12 hour cycle is evident in the visual phenomenon formed in the sands. Since gravity waves are capable of passing directly through the earth it creates a 12 hour cycle. Another approx. 6 hour cycle appears in the computer generated Doppler data. However it is easiest to see the signature left in the sand when the tide is receding.

The beach grooves form on a 1-2 hour basis twice each day assuming the Doppler shifts and bodies alignments are correct which is date/time related. Several weeks stay before/after earth's apogee/perigee may be required to

witness the event reach its maximum unless further refinements in the prediction can be made. The phenomenon should not be confused with 'type one' patterns.

ASSOCIATED WHISTLERS:

It is not necessary to be at the beach to detect Doppler shifted heterodyned gravitational frequencies, they are everywhere. They heterodyne with iron and internal components of radio frequency equipment resulting in a weak but trackable signal when one knows how to search for them.

Evidence is clear a whistler or packet of static can be tracked and correlated to the heterodyned Doppler shifted frequencies of nearby heavenly bodies. One can easily solve for the wavelength of gravity given the topocentric velocities of the sun and moon with respect to the earth (see the example given). Calculations incorporating the whistler frequency will result in a more accurate wavelength for gravity.

Doppler data near earth's apogee and perigee dates shows that a radio frequency whistler is associated and has been located by Bert Younglove WA7HI. The synodic whistler passes up through the radio spectrum at differing rates from below 4 MHz to 900 MHz and beyond. The whistler is a very weak signal just above the background level. This whistler is not related to lightning or atmospheric effects. The attributes are not fully known as yet. It may disappear briefly then reappear further up the spectrum. You will have to keep your eyes open to keep track of it. The whistler is a very weak signal just above the normal static background level- tune in on a peak that is moving up in frequency within the background radiation (or atmospheric noise). The rate it moves through the spectrum is related to the date, time, and your longitude and latitude position. The intensity of the peak may vary, rising up out of the background radiation then dropping back into it. The whistler is related to earth's rotation and orbit around the sun and travels upward through the spectrum from sunset to Midnight. Bert Younglove WA7HI tracked the Earth-Sun whistler for several hours in the early part of January, between 8 and 10 p.m. Bert was using an ICOM 756 Pro with an integrated spectrum display. A spectrum display will be required.

Radio equipment incorporates super-heterodyning circuitry. High and low intermediate frequencies are used to build the tuning circuits. Manufacturers may use different intermediate frequencies. Thus differing radio circuits will detect different frequencies from the phenomenon as it heterodynes within the circuit. However the original source frequencies will still exist on each radio.

Sun only: Look for a whistler, or a packet of static that passes downward from hi frequency to low between the hours of 12 noon and midnight for several weeks before and after earth apogee and perigee January 2nd and July 3rd approx.

In general tracking the sun's whistler and or static packet will have four cycles as follows: Increase in radio frequency from sunrise to noon. Decrease from noon to sunset. Increase from sunset to midnight. Decrease from midnight to sunrise. Topocentric velocities will be required to determine exactly which direction within the spectrum the whistler will be traveling. **Diurnal Extremely Low Frequency at sunrise**⁶.

Another whistler originates from the moon's orbit. This whistler will pass through the spectrum at rates related to the Earth-Moon Doppler shifted heterodyned gravity frequencies.

MOON WHISTLER: (This one has not been searched for yet)

The moon should have a similar whistler which should be stronger but move through the spectrum much faster than the earth sun whistler. To locate the moon whistler the program 'MoonSked' is required. Look for Doppler frequency shifts using 'MoonSked' that are dwelling or changing slowly. The effects on surface water ripples on lakes and slow moving rivers can be identified as well. Cycling daily one should be able to calculate the frequency of gravity from it and use the data for future tracking. <http://zappers.camstreams.com/> Correlate moon Doppler with river ripples. These at times can be separated from the wind conditions and are clearly caused by external means. If you look at water ripple motions enough times one will conclude that something other is in effect (Doppler heterodyned gravity).

http://70.98.202.18:8080/user/cgi-bin/view_S_t_uF.html Saltes restaurant

<http://www.weather.com/weather/hourbyhour/PDX:9> Weather at Portland Airport (for wind conditions)

THE FORCE

Einstein's gravitational theory of curved space-time has no force associated with it. Instead of a force, mass is considered to be in constant free fall.

An illustration of electromagnetic wave to force conversion: The energy from the once proposed huge solar energy production array satellite is beamed down to earth. Here energy from the sun is converted to an electromagnetic (microwave) wave beamed to earth and converted to electricity and then to mechanical motion (force) via electric motors. Then, the question we should ask; "if man using the elements of nature can convert an electromagnetic wave to mechanical motion (the force) why could not nature?" The answer is; it most certainly could. An electromagnetic wave can be converted to a torsional form enabling the direct transmission of a force without physical mechanics.

CONCLUSION

NOTE: DeBroglie Wavelength of Proton the DeBroglie wavelength expression is *****

The Doppler heterodyning calculations concluded the gravitational wavelength at approximately .00718 Angstroms. The neutron and proton are the basis for atomic weight and stoichiometry. It becomes clear they are related to the wavelength of gravity. Why this wave cannot be detected directly is due to its passage through everything (including the instruments used to detect it), Altering the experiment outcome. It is hidden if one attempts to detect it directly. The author believes the gravity wave is emitted from the proton and becomes the ether field. The rotating helix wave passes through everything enabling the properties of inertia, length contraction, time dilation, and the bending of light. The rotating helix wave concept is easily understood but requires enhancing the rules of superposition, which then allows complete comprehension of the double slit and wave particle duality as well as EPR experiment.

The author concluded some type of hidden interaction (a unique collision or transferring of force in the case of the rotating helix) between electromagnetic waves of similar wavelength exists. Briefly; this requires extending the rules of superposition to include an energy interaction along with the confirmed appearance to pass directly through one another unaffected.

Ring Laser Gyroscope: Lock-in characteristic is evidence that there is a minute alignment force between in phase electromagnetic waves. The author believes strongly a characteristic of the Ring Laser Gyroscope is evidence of in phase electromagnetic wave to wave interactions that indicate electromagnetic waves can under certain circumstances exhibit an alignment force, if configured correctly is capable of supporting attraction and repulsion.

RLGs, suffer from an effect known as "lock-in". When the ring laser is rotating very slowly, the frequencies of the counter-rotating lasers become very close to each other. At this low rotation, the nulls in the standing wave tend to "get stuck" on the mirrors, locking the frequency of each beam to the same value, and the interference fringes no longer move relative to the detector, which causes the device to no longer track angular position.⁸

Due to the great controversy of the below the author with respect chooses to leave these Subjects for a later date: The author sincerely believes once this is understood to be a gravitational phenomenon some difficult physics mysteries become easily understood. Being that this wave passes through everything and the particles of stoichiometry (relationship to mass) are the source it is not unreasonable the wavelength of gravity is interrelated with the neutron and or proton.

Accepting that an electromagnetic wave can transmit a minute force gives us insights into:

1. How the ether field composed of gravitational waves can be undetectable by the Michelson-Morley experiment
2. Looking at superposition and interference in a new light

3. Understanding inertia and magnetism
4. Duality
5. Time dilation and length contraction can easily be understood.
6. Results found in EPR experiments.

BACKGROUND RADIATION:

Someone came up with the idea that ‘Background Radiation’ comes from the big bang. Everyone simply accepted the idea. The author believes heterodyned Doppler shifted gravity waves from the cosmos is another source of the background radiation.. Doppler shifted gravity waves heterodyne resulting in much longer wavelengths appear coming from all directions.

SIDE LIGHT

The author has built a working prototype artificial gravity wave generator. The output is a rotating rotationally polarized microwave. The device is capable of forming small surface ripples about 50 feet out on a normally clear lake. The device was not coherent enough to make propagating water waves only ripples.

Einstein admits the existence of the ether:

<http://www.mu6.com/einstein.html>

<http://www.infinite-energy.com/iemagazine/issue38/einstein.html>

<http://redshift.vif.com/JournalFiles/V08NO3PDF/V08N3GRF.PDF>

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Computer program: Moon.bas (see companion disk).
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1.8 EXPERIMENTS:

1. During pool formation or just before the groove formation the moving electromagnetic wave signal may be detected by a sensitive detector like the magnetic head of a tape recorder. An audio signal of several hertz or more.
2. Duplication of the groove formation. Pass a DC electric current between two points through moving salt water. A resultant ripple should appear where the current passes. This is analogous to the opposing force produced when passing a shorted conductor through a magnetic field. Error above (a fast moving magnetic field is necessary).

RESULTS:

2a. Similar to above. Note: (Look for the "Double" ripple)

Flow water across a wooden board with a indented groove (below surface).

RESULTS:

Waters apparent surface tension allowed it to conform to the surface of the board, filling the groove. No above surface ripple formed under normal flow velocities. results negative.

2b. Flow water across a wooden board with a slight ridge (raised above surface).

(See video tape for results on this experiment)

3. Fill a large glass jar with sea water and high concentration of the iron oxide particles. Stirring up the particles, do they repel the field line of the type 2 or type 3 formation.

Experiment: Sample the black sand from the groove area only for magnetic properties again.

RESULT: After drying there was found a high concentration of paramagnetic particles, Nearly 100%.

Experiment: Induction compass.

Check a special compass with a non-magnetic conductor on one end. The other end would simply be a non-conducting counter balance. Check within the forming groove area.

RESULT: Negative on type #2 patterns.

Experiment: Does a large pan of saltwater ripple when set within the area of the phenomena. Or simply shovel out a small area in the groove.

Experiment: Will a strong oscillating magnetic field form a ripple in salt water.

RESULT: The resistance of salt water is too high except for very high velocities. The effect can be felt by sliding a very strong magnet across a copper or aluminum plate. Requires a moving magnetic field only (oscillating)). Mercury however, does ripple in a moving magnetic field.

Experiment: Try a sensitive voltage meter and a 1 turn coil in the ripple formation area. Or a LED and a 1 turn coil. A compass which can detect only one pole at a time is useless.

RESULT: None in the configuration used. Suggest another. If the field lines are stationary then move the wire.

Experiment: Check the ripple crest direction to see if the Electromagnetic rotation direction is noticeable.

Experiment: (Water ripple analysis)

Will a dip groove produce a water ripple as a incoming water wave passes over it? Run water from a garden hose over a piece of wood that has a 1/4 - 1/2 inch groove cut into it.

RESULT: A groove below the surface will not produce a ripple on the water passing over it. (see video). The water fills the groove and adheres to the surface.

Experiment: Similar to above. What type of ripple will a stationary rod produce when water flows over it. Is this the same type formed during the synodic occurrence?

NOTE: The synodic water ripple is usually a double ripple.

RESULT:

Mounting a 6 foot long 5/16 inch diameter iron rod in the sand. The resulting double water ripple was very similar to the natural synodic ripple. The sluice box effect was diminished however leading me to believe the Lenz law effect must add to the rust particle separation.

Experiment: Try a non-magnetic particle that will respond to Lenz's Law effect only. Aluminum which weighs less, and may not provide a non-linear surface to support heterodyning.

RESULT:

Experiment: See Duct tape experiment.

Video tape (close up) of the water ripple formation on a dark night. Many video cameras are able to pick up the near infrared which is invisible to humans. Quantum jumps often produce a light emission signature. An unusual example can be found when pulling a strong tape like most duct tapes from its own roll. In an absolute dark room, a small emission of light can be found emitting from the separation.

Hypothesis: Possibly the waters absorption wavelengths could provide information on the many occurrences of the grooves.

Experiment: Try a super magnet spinning on the end of a drill or high speed motor.

See hypothesis: Observation:

The ocean like smell that came during the electrolysis of sea water. A chlorine like smell from the separation of NACL. Shaking vigorously sea water within a glass jar resulted in no such odor.

HYPOTHESIS: The sometimes familiar clean ocean air scent may be from electrolysis of the sea water. Synodic gravitational waves may be responsible for producing the current.

Theory:

Lenz Law: a relationship

The ripple is probably formed by a spinning magnetic field within the conducting salt water. the rotation source is from the combining of the two rotating helix Doppler shifted gravity waves. If so the ripple should be able to be duplicated by oscillating magnetic field. Experiments show that due to the low conductivity of salt water a large magnetic field is required or a very fast rotation velocity.

Theory: Because the stationary water ripple forms, this shows that the magnetic field is rotating. i.e. Lenz law.

Question: Where is the other pole ?

Why does a compass not detect the synodic grooves field? Does its housing of metal, shield the Lenz law magnetic effect?

Alternating fields appear to have no pole. When a magnet passes over a copper wire the resultant current goes negative then positive. A compass is useless in detecting a slow oscillating field. Only when Lenz's law comes in effect will a compass then repel an oscillating field.

HYPOTHESIS:

Directing circularly polarized standing waves (approx 600 mHz) at the beach may result in similar grooves appearing in the sand as the water washes over the field lines.

HYPOTHESIS:

Directing circularly polarized waves at the moving incoming waves may react (push) against the waveguide emitting them.

8.9 PREDICTING THE EVENTS:

-----EARTH PERIHELION ----- (Nearest to Sun)
(UNIVERSAL or GREENWICH TIME) (ASTORIA OREGON-Pacific Standard Time)

1995 Jan 4 11:06 Jan 4 3:06 am PST

1996 Jan 4 07:26 Jan 3 1:26 am PST

1997 Jan 1 23:17 Jan 1 3:17 pm PST

1998 Jan 4 21:17 Jan 4 1:17 pm PST

1999 Jan 3 13:01 Jan 3 5:01 am PST

See also Astronomical Algorithms pg. 258

-----EARTH APHELION ----- (Furthest from Sun)
(UNIVERSAL OR GREENWICH TIME) (ASTORIA OREGON-Pacific Daylight Time)

1994 July 5 19:18 July 5 10:18 am PDT

1995 July 4 02:17 July 3 5:17 am PDT

1996 July 5 19:01 July 5 10:01 am PDT

1997 July 4 19:20 July 4 10:20 am PDT

1998 July 3 23:52 July 3 2:52 pm PDT

1999 July 6 22:52 July 6 3:52 pm PDT

NOTE: Absolute timing is unknown. Events occur almost year around. Two Doppler programs Earth-Sun and Earth-Moon are provided. However the predictions are more complicated than comparing Doppler velocities. Also available Saros.bas, and Cycle.bas.

Earths rotational angle is different in morning than at night. The velocity of separation reduces in morning AM hours and increases in PM. There seems to be a quantum relationship.

Approaching line of apesides: (Source moving away)

The duration of an event may last longer in the morning hours from midnight to noon and shorter in the PM, but this is dependent on the orbit position. Moving away from line of apesides: (Source moving toward).

THEORY: (Synodic Event) (See introduction)

These wavelengths correlate to a complex relationship of the earths orbit, rotation, tilt, and your Lat Long as well as the moons orbit. Basically they are centered around earths perihelion. Why mainly near perihelion or aphelion?

Earths separation velocity with respect to the sun goes from over 1400 kilometers per hour to zero and then back up again. It's the dates when the earth - sun separation velocity and the earth moon separation velocity are near equal. Now this is the separation velocity with the sun I'm referring to not the more commonly thought of orbital velocity which is much greater and never ever gets close to zero.

Why Long/Lat makes a difference?

Well, one reason and there are others is; The earths rotational velocity at the 46th parallel is 1165 km/hr. However the rotational velocity at its poles is zero. Every parallel has its own rotational velocity and Doppler. Also, this rotational velocity with respect to the sun cycles from zero at noon and midnight to its maximum at 6 am and 6 pm your time. The solar time of day gives you your tangential velocity relative to the sun.

Prediction Method #1.

DOPPLER CALCULATIONS (earth-sun)

Recommend the computer program "Synodic Doppler" file name: EarDop92.bas. Use the hardcopy option to get readable output.

For January 3rd 5:10 pm a date and time At 46 deg 12 sec N. Lat. 124 deg w. long.

Steps Required to Calculate for Earth/Sun Doppler.

(A).

Earth / sun orbital separation velocity on this date = -10 Km/hr. Approx. (source: Almanac computer program revised). I'll call positive increasing distances or velocities, and negative reducing distances. So, dates approaching perigee are negative numbers, dates after perigee are positive. The apogee is just the opposite.

(B).

Earths rotational velocity at the 46th parallel is 1165.187 Km/hr sea level. (source: Astronomical Algorithms pg. 79)

(C).

5pm puts me at 15 degrees to the sun. Solving for this angle to the sun, my rotational velocity to the sun is:

$$\text{Rotational Vel to sun} = \cos(15 \text{ degrees}) (1165.187)$$

$$= +1125.48 \text{ Km/hr}$$

This is a negative number between midnight and noon, and a positive number between noon and midnight.
(increasing velocity)

(D).

Allowing for earth's tilt angle at this date of approximately 20 degrees.

$$\text{Adj rotational vel to sun} = \cos(20 \text{ degrees}) (+1125.48)$$

$$= +1057.6 \text{ Km/hr}$$

(E).

Adding the orbital separation velocity to the rotational velocity:

$$\text{Combined Separation Velocity} = -10 + (+1057.6)$$

$$= +1047.6 \text{ Km/hr answer.}$$

Note the low separation velocity between earth and sun (see step (E) of 10 Km\hr. This number is very low because the earth's orbit reaches its maximum position near this date. As can be seen in step (E) the rotation of the earth becomes the dominate factor.

The moon's orbit provides the secondary (probably the primary) wavelengths. This must be considered.

Second Method To Attempt Predictions:

The events may be predictable using the Saros cycle or harmonics of the Saros cycle. Saros Cycle = 6585.32 days or approx 18.04 years. See computer program SAROS.EXE to calculate Saros cycle dates.

ADDITIONAL NOTES

Doppler wavelength shifts due to both the orbits and earth's rotation along with Latitude Longitude earth positions will calculate the proper dates times.

DOPPLER EQUATIONS:

$$F = \sqrt{(c+v)/(c-v)} * f_0 : \text{source moves toward observer}$$

$$F = \sqrt{(c-v)/(c+v)} * f_0 : \text{source moving away}$$

NOTE:

Assuming a gravity wavelength of .01 angstroms allows for a Doppler shift of approx 600 mega Hertz from a separation velocity of 2166 km/hr. The heterodyning equation is a required step, not shown here. (gravity wavelength is assumption for example only).

THEORY

While these concepts are new, they are not that difficult to comprehend.

Based upon the following assumptions:

ASSUMPTION #1:

Gravity is a rotating helix electromagnetic wave emitted from the elements. (The size of this wave is quite small and undetectable by normal measures.)

ASSUMPTION #2:

Gravity waves Doppler shift due to orbital mechanics.

ASSUMPTION #3:

Gravity waves from two or more sources can combine within the elements by the process known as heterodyning. Gravity waves that are Doppler shifted through orbital mechanics recombine with molecules. This results in detectable wavelengths.

Both earth and moon wavelengths combine simultaneously within molecules much like the substrate of a transistor. When the orbital mechanics are exact weak detectable wavelengths are emitted. To fully understand this concept please read the text in Grand Field Theory.

Quantum relationships occur between specific molecules and the timing of orbital mechanics.

Due to the complexity of the orbital mechanics involved, approximate timing of a occurrence might be found near earths aphelion and perihelion dates.

NOTE: Rainbow computer programs shows that atomic wavelengths can add, not frequencies as in heterodyning.

Hypothesis:

If gravity is a type of electromagnetic wave then the orbiting body will produce a Doppler wave from its gravitational emission and the separation velocity of its elliptical orbit.

This Doppler wave in conjunction with the stationary bodes (earth) gravitational radiation will form a third wave from the beat frequency result of $F_n = F_1 + - F_2$ or

Wavelength.new = Doppler +- Earth Wavelength. The sand grooves as well as the RF form upon this new wavelength. Note: Only the larger wavelength.new is of value here.

REQUIRED:

NOTE: Wavelength diameter or height is a constant related to its propagation velocity. Although a Doppler can change its frequency it cannot alter its wave dimensions which are fixed by the velocity of light.

The grooves form only when there is a whole number difference between wavelengths. This allows a matching of peak to peak of both waves. Wave matching by stretching will allow imperfect matches to occur. When the two waves size difference is beyond their ability to stretch and combine the grooves cannot form. Wave stretching provides the reasoning for the gaps between patterns which appear on the beach. Two slightly different wavelengths will stretch slightly to conform to each other. They match up due to their close tolerance and stretching but must separate (the gap) further along as the forces surmount their attraction force. Again and again they match then separate.

QUESTION: What could cause all the magnetic particles to align? Well a magnetic field of sort of course!

HYPOTHESIS:

This is a special RF wave that can repel paramagnetic particles. Only elements that emit a particular wavelength will be repelled by this RF wave (See Theory). A strong magnet has little or no effect on the formation of the grooves. It is possible the salt water is a requirement for the phenomenon.

GROOVE FORMATION THEORY:

The timing of the RF appearances may be compared-related to atomic spectra in the sun.

Hypothesis Alternative:

1. The elements in the sun may be the progenitor of the phenomenon. The timing of the appearance \ disappearance of the grooves may be directly related to the iron or hydrogen absorption spectrum in the sun. The iron or hydrogen in the water and the iron\hydrogen in the sun.
2. Since the grooves appear and disappear at intervals. The interval timing occurrence of the grooves must be based upon a harmonic matching wavelength The timing should be calculated from the variables 1. Iron oxide or other absorption spectrum 2. earth-moon-sun Doppler velocities.

Why would these grooves form only on several wavelengths and not drift up or down the frequency spectrum as one would expect from a slowly increasing Doppler wave? See explanation given in file Grand Field Theory- Planks constant and quantum.

NOTE: (A Understanding of The Grand Unified Field Theory is Required for the Below)

The distance of the gap should be related to the frequency of the gravity waves not the groove wavelength. Planck's constant $E=hf$. So the gap will remain constant with similar sets of gravity waves that are appearing at a time. The gap should show up in the lower frequencies around 30 MHz = 30 feet.

Looking at the beach where the synodic grooves form and the gaps between them. The gaps are where the two waves break apart being they are of slightly different sizes. When the waves break apart they snap to their normal dimensions like a spring then recombine further along when they again match up. This may be considered a quantum jump. When this gap distance is measured a RF wave may show up that equals it. This RF wave is a photon, the same photon that is emitted or absorbed during standard quantum jumps.

Once the springs (circularly polarized electromagnetic wave) have reached a point of alignment a small attraction thus stretching to maintain their phase occurs. When the two springs energy difference becomes too great they snap apart only to align and recombine again further along. The springs match for a while then break apart and ring producing a photon. Further along they again match up and repeat. Each interaction produces its own photon.

Example below:

Like holding two bolts of slightly different thread count\inch side by side. The threads align for a short distance then separate and realign over and over again.

tpi = threads per inch.

||||||| -4 tpi

||||||| -3 tpi

As can be seen every 3.5 waves the two match up. The wave stretching cannot be shown due to limitations of the keyboard (ascii).

PLANKS CONSTANT HYPOTHESIS: (See Grand Unified Theory)

Planks constant is the attraction bonding energy between two similar waves. Planks constant should directly relate to the energy of two waves ability to stretch then break apart (the gap). (see theory for details)

Sun Elements:

Moon Elements: (crust)

37-49% Silicon Oxide, 18-23% Iron oxide, 7-14% Aluminum oxide, 6-17% Magnesium oxide, 8-12% Calcium oxide, .3-13% Titanium oxide, and other trace elements.

Sand Elements: Silicon, Iron Oxide, and others

CHAPTER 2: HYPOTHESIS:

The Following Hypothesis Were developed From the Last 10 years of studying this phenomena.
Most if not all of the Hypothesis are all true A few have several things forming the effect.

The author believes that it is not necessary to be at this beach to witness heterodyned gravitational effects. The effects can also be seen in slow moving river water but only on certain dates and times. Surface water movements or rippling effects alter dramatically at times on the Columbia River. However it is difficult to separate the slight breezes (air movements) effects out as it often occurs at the same time. Looking for changes in the type of ripple motions is important when the wind velocity is at the very minimum. It is much more difficult to be scientific with river water ripple motions as it is difficult to separate the wind and water flow conditions out. With the beach sand iron oxide phenomenon separating the variables out is not a difficult task.

The author also feels that the waves sometimes can be seen in the clouds. This however has several other conditions which form ripples in the clouds such as different temperature layers (thermocline) and cross winds.

FIRST HYPOTHESIS:

Doppler shifted gravity waves combine (heterodyne) forming much longer detectable wavelengths.

SECOND HYPOTHESIS:

A. That these frequencies are predictable and will follow a combined orbital schedule of earth orbit and moon orbit. (planet angles are required).

B. The grooves in the sand as well as the natural radio waves are centered around the saros cycle. Saros Cycle = 6585.32 days or approx 18.04 years.

THIRD HYPOTHESIS:

Global movements of detectable frequencies with respect to earths rotation.

FOURTH HYPOTHESIS:

The beach sand grooves are formed by gravitational field lines (Doppler shifted and Heterodyned).

FIFTH HYPOTHESIS:

Combining or heterodyning of earth - sun and earth - moon Doppler shifted wavelengths.

SIXTH HYPOTHESIS:

A flurry of frequencies momentarily occur related to iron and iron compounds. These occur at a timing related specific orbital mechanics.

SEVENTH HYPOTHESIS:

When Doppler velocity dwells, the detectable frequencies will remain the same. Otherwise they are continually changing.

EIGHTH HYPOTHESIS:

Gravity is a rotating polarity electromagnetic wave. (see theory).

NINTH HYPOTHESIS:

Atmospheric signal jumping (long distance) riding upon Doppler shifted gravity atmospheric carrier waves combined with the atmospheres elements. Patterns may appear and disappear on earths globe that share similar wavelengths from which man made signals use as carriers, allowing long distance signal travel. Solar flare relationship to synodic motions.

TENTH HYPOTHESIS:

A ringing or resonating emission from the separation of gravity wave emissions from two heavenly bodies relative movements. Also from planet rotation. The resonance related to the distance between the heavenly bodies, much like the length of a string on an instrument controls the pitch.

ELEVENTH HYPOTHESIS:

A search for fundamental wavelengths will reveal the gravitational wavelengths.

TWELFTH:

Quantum relationships and orbital jumping resulting in weak electromagnetic waves.

THIRTEENTH:

Quantum jumping is a similar process as heterodyning of electromagnetic waves.

FOURTEENTH:

The synodic cycle of planetary angles, and Doppler velocities are in a very long cycle, possibly greater than thirty years. Whole number relationships in Doppler wavelengths however can result in repeat events.

FIFTEENTH:

The paramagnetic particles are separated out leaving their high concentration thus the black lines by repulsion from field lines by the Lenz Law effect. From a extremely fast rotating field line.

SIXTEENTH:

The paramagnetic particles are separated out leaving their high concentration and the black lines by a sluice box effect (similar to gold panning).

SEVENTEENTH:

VLF and ELF, or very low and extremely low frequencies are associated with heterodyning of synodic gravitational wavelengths. Certain minerals may exhibit this phenomenon.

EIGHTEENTH:

Sand grooves are a visual aspect of electromagnetic wave heterodyning and quantum jumping resulting in the radio frequencies. One or more of the following may play a part, quartz, sea water, and paramagnetic particles.

NINETEENTH:

The angle of the heavenly bodies to one another may play a part in the sand groove formation and radio frequencies.

TWENTY: Deleted

TWENTY ONE:

Sand and water rotation direction (clockwise for incoming waves and counter-clockwise for out going waves) is partially responsible for the different types of sand grooves (type 1, type 2, type 3). This when related to synodic planetary motion will determine the type.

TWENTY TWO: (Place below also in theory file)

Planck's constant: When two Doppler shifted heterodyned waves combine then break apart they emit a third electromagnetic wave. Fn is the third wave and is directly related to Planck's constant. This can be visually seen in the beach groove patterns and detected by radio equipment. (occurs mainly when the patterns are breaking up).

TWENTY THREE:

The atomic spectral lines are the result in subtracting of two waves in the heterodyning wave equation. Stretching the waves during the heterodyning process beyond their limits allows them to break apart and snapping back to their original size thus emitting the electromagnetic photon. The Quantum jump is this process.

TWENTY FOUR:

A atomic chain like effect connecting the three bodies, earth, moon and sun. The chain (the gravity wavelength) similarly affects all these bodies almost like a sprocket and chain connected them. Movement of one body affects the frequencies of all three simultaneously. The atomic frequencies have limits however. A particular element will only alter its frequency a certain amount (much like heating it but to a lesser degree). Then when the gravity Doppler wavelengths become to far out of range it can no longer absorb and the absorption band jumps (matches) another atomic frequency and or element.

Sun spots: Sun spot cycle is based upon synodic motions. HYPOTHESIS: The 7/14 year sun spot activity is related to the combination of the elliptical orbits of the planets Doppler shifting during apogee and perigee combinations. Dear Carsten A. Armholm

Sun spots are caused by the perihelion and aphelion of the planets. When many of the apogee and perigees of the planets near the same date then sun spots activity will increase, Proofs of this is at: synodicgravity.com
Very good simulator

TWENTY FIVE:

Pulling tape off its roll is much like gravity pulling away from the earth's surface. An electromagnetic wave (photon) is emitted. As the earth rotates it pulls away separating the two gravity fields. Strong tapes emit photons when separated (visible light) depending on the adhesive used.

TWENTY SIX: (See Platter experiment)

Fast rotation of a metallic (various elements) platter will emit weak VLF very low frequencies (moving objects). Related to RF detected during meteorite fall.

TWENTY SEVEN:

Telluric currents or Earth Current are produced by synodic gravitational waves.

What is telluric current:

Telluric current, also called EARTH CURRENT, natural electric current flowing on and beneath the surface of the Earth and generally following a direction parallel to the Earth's surface. Telluric currents arise from charges moving to attain equilibrium between regions of differing electric potentials; these differences in potential are set up by several conditions, including very low-frequency electromagnetic waves from space, particularly from the magnetosphere incident upon the Earth's surface, and moving charged masses in the ionosphere and the atmosphere. Telluric currents are often used by geophysicists to map subsurface structures, such as sedimentary basins, layered rocks, and faults.

TWENTY EIGHT:

Rotating helix electromagnetic waves can break molecular bonds by unwinding. Since most of these waves are weak the process is very slow. Similar to un-winding threads, they become weak.

TWENTY NINE: (Grapes of Wrath Experiment. see microwave file)

The microwave gets trapped within the grapes wall. Because the grapes are spherical and are a correct wavelength to size match. As the wave bounces within its spherical enclosure it begins to rotate -spin rapidly. From this rapid rotation a rotating helix wave electromagnetic wave is emitted. Two grapes placed side by side with a electromagnetic wave passing between them produces two separate counter rotating electromagnetic waves. These waves then react.

THIRTY:

Tsunami - Early detection. Ocean waves pulled great distances by synodic gravity waves. Increasing their momentum and velocity. Tsunami's can be dated and can be cyclic, much like weather and storm cycles. Predictable. Timing of sneaker waves should be predictable as well, based on past events. Sneaker reported Newport beach 12-21-1999.

HYPOTHESIS:

The wavelength of gravity is the wavelength of a proton at rest.

EXTENDED HYPOTHESIS:

The below phenomenon may be attributed to synodic Doppler shifted heterodyned gravity waves from the stronger sources earth, moon, and sun. Specific synodic patterns may cause one or more of the below. Elements other than iron compounds are affected at specific intervals. Absorption characteristics.

Background radiation Hypothesis:

Some of the background radiation in the cosmos may be produced by Doppler wavelengths from orbital motion of gravitational bodies. The naturally occurring background radiation usually attributed to the big bang may be the breaking of the gravity circularly polarized helixes into multiple length segments. Each segment is a whole number ratio of Planck's constant. The ringing of these segments produces the background radiation.

Further more, the fundamental element wavelengths necessary for chemical reactions hypothesized within this thesis may also share as the gravitational wavelengths. This would mean that not all elements would be gravitationally attracted to one another. Elements that could not combine chemically also would exhibit no gravitational attraction. This may have already been confirmed by experiment. If the above is incorrect then gravity wavelengths must be separate from chemical combining wavelengths.

Atomic spectra is different than blackbody radiation. Why? A rarefied gas must be used for spectroscopy. Wave heterodyning has a less likely chance to occur due to the molecule separations. Thus the individual spectra lines. Blackbody radiation concentration is so great that heterodyning occurs easily.

There will always be another particle appearing in larger and larger particle accelerators with shorter and shorter life spans. Their just waves in the aether (Elohim field) if they are not self contained. They don't last their just vibrations in the aether (Elohim field).

HYPOTHESIS:

Weather pressure changes related to synodic Doppler patterns. Synodic patterns pull on the upper atmosphere cause bulges thus pressure drops. Predictions be made using similar patterns of synodic frequencies.

A orbital cycle between the earth and moon nearly closes every xx years.

Earth orbit: 365.256 days Moon orbit: 27.322 days.

$365.256 / 27.322 = 13.857$ moon orbits per year (or per earth orbit).

By multiplying 26.737 by whole #'s until the product results in a whole number may reveal cyclic weather patterns. See Cycle.bas computer program. This is a general not exacting analysis.

Key to large local weather patterns (storms) that occurred on the northwest coast.

See reference: Oregonian newspaper Feb 8 1996.

Wreck of the Peter Iredale 1906 caused by a wind storm.

Columbus Day Storm Oct 10th 1964 100+ mph winds

Huge Floods in 1964 and a big freeze with snow and immediate thawing.

Big Blow Dec. 12th 1995 2pm 100+ mph winds

Huge floods 1996 Feb 6-10th, a big freeze with snow and immediate thawing.

Hypothesis: Another storm occurred between the shipwreck and the Columbus day storm.

Between 1929 and 1932. See Vanport flood 1948? Flood of 1894

Note: Usually wet weather January 1-15 1996 Portland Ore.

Freak wind storms on

Jan. 15th 1996 4am.

Jan. 18th 1996 9:00 pm 75 mph gusts.

Absorption of water into the atmosphere. Prediction of rainfall, winds air pressure, water spouts.

Water Spouts:

Very local and strong updrafts/downdrafts on earth may relate to mass upheavals on the suns surface. These must be properly timed with synodic motions to qualify. Timing is essential, combo synodic and sun spots movements to fast to pull water or air would appear as rf or VLF (very low frequencies).

Droughts: Cycles predictable by synodic motions (earth - moon - sun).

Jet Stream: Jet stream flow patterns arranged by synodic motions.

Cyclones: Synodic gravitational forces aid in formation of cyclones (twisters).

Tidal Waves and or Large Ocean Waves: Other than earth quakes, large waves might originate from local planetary (earth moon sun) synodic motions. See Beach.txt "soliton waves and pools formation".

HYPOTHESIS:

Some people may have the sensitivity to perceive (feel) some of the stronger of these waves. Examples of this have been recorded. Although seldom directly correlates to the visual synodic sand grooves.

Aging: See finger tips, and microwave experiment.

Occasionally these Doppler shifted waves can be very slightly felt. A very slight buzzing feeling, a uncomfortable or annoying feeling, a very slight momentarily pain in joints. irritability, possibly even a low audio at times, depending on the strength and your latitude-longitude. During the strongest waves it can be felt in the toes. Placing insulators (thick piece of paper) between the toes stops the tingling sensation. A sensation in the toes was recorded on 4/11/99 1:30 am (From logs not available). Insulating the toes on one foot stopped the sensation on that foot. See also grapes of wrath experiment.

Slow accumulating tissue damage.

Inspecting the finger tips of the extreme elderly 90-100 years old. You will find the finger tips look like a 30 year old. The toes damage probably because they touch one another continuously. See the microwave experiment results in CHAPTER 4. Oxygen in the atmosphere may be the primary element of this heterodyning wavelength.

Note: These waves are rotating helix waves not the standard electromagnetic waves found in radio waves which are simpler sine waves. Thus radio waves should have a minimal effect on body tissues (unless heating occurs). See: Hypothesis twenty-eight.

Note: Early biblical records show people living for over 1000 years. This may be due to the high concentration of water in the atmosphere during this period. (water absorbs electromagnetic waves not allowing transmission).
HYPOTHESIS: Based upon the above, it may be possible to shield oneself from the damaging electromagnetic radiation. It is known that radio waves cannot pass through water to any extent. Water may provide a reasonable Faraday like shielding.

HYPOTHESIS: (Synodic Sand Pools and Healing)

There are accounts of water under certain conditions, when combined with faith, producing healing effects. During the stirring water of the synodic sand pools formation a natural charging of the water may initiate healing. Full immersion and faith is recommended. A danger exists in the as the shore bottom is uneven at this time. Predictions of the event have not been possible at this time. Although once it starts it often will repeat twice a day for several days (sometimes weeks), 30 minutes later than the previous day.

HYPOTHESIS:

Future minute changes in electrical current flow. Probably only affecting semiconductors (transistors). Temporary occurring in isolated areas. Extreme situations might result in local isolated blackouts. Certain synodic patterns may change some elemental characteristic.

HYPOTHESIS:

Synodic gravitational patterns and or the phase shifting can cause minute changes in the elements. Allowing rare physical changes, weather events, assisting in earth quakes and lightning, some catastrophic, human sensory changes. Pacific Northwest Seismograph Network web site (Oregon area).

<http://www.geophys.washington.edu/SEIS/PNSN/WEBICORDER/welcome.html>.

Beach elements are winding up or charging up and discharging much like the charging - discharging of phosphorescence materials which absorb light of one wavelength then emit on another. The radiation is in the radio spectrum however.

HYPOTHESIS:

A weak correlation between earth quakes and wind storms that pass by quickly (tempest). Caused by strong synodic waves that sweep like currents across the earth. If weak area is already present below the surface a synodic wave could induce a quake much like a single grain of sand causes a land slide. Also since these waves pass through the globe a small relationship will occur at 180 degrees on the globe.

HYPOTHESIS:

Sometimes when a strong gravity passes (whether synodic or not I don't know) the wood joints in the building crackle. Also attributed to foundation settling. If you're sensitive you may be able to associate a feeling to the joints crackling sound.

EXTENDED HYPOTHESIS CONT:

First Hypothesis: (Synodic Evaporation)

Specific Doppler shifted and or heterodyned gravity waves enable increased evaporation rates. Periods of localized increase of ocean -land water evaporation from a specific timing of synodic interactions. Thus weather patterns are formed by the synodic interactions. Example: Evaporation of seawater and thermal saline currents.

Note: Portland Oregon experienced very high humidity with no apparent reasons on 05-28-97 - 05-30-97.

Rainfall was very light yet humidity was near 90%. Other occurrences have been noticed but not logged.

Second Hypothesis: (Surrounding shielding by use of a 2 to 3 foot thick water experiment)

Gravity waves heterodyne with the local surroundings produce electromagnetic wave fields that affect us.

Plants and animal synchronizing to the synodic weather patterns. Several aquatic animals migrate and or may reproduce in relationship to the moon's cycle. The electromagnetic waves produced by orbital gravitational Doppler shifted waves heterodyning are sensed by animals.

Woman periodic 28 day menstruation cycle is directly tied to the moon's 28.4 day orbit with the sun. There are two cycles however moon's apogee and perigee every month.

This results in a 14.2 day cycle as well.

Mentally disturbed people: Police and Hospital report more incidents occurring during the full moon. Could this be the spirit world trying to communicate with the world, or the opening up of a temporary communication doorway?

Third Hypothesis:

Large water bearing weather fronts forecasts are often off +-12 hours in the Pacific Northwest. Noting that high tide occurs every 12 hours a partial relationship may exist here.

HYPOTHESIS:

RF may be partially absorbed when Type 2-3 sand groove formation is at maximum. This would explain the sometimes lack of corresponding groove to groove wavelength match to radio frequency. Radio frequencies usually re-appear when the grooves begin to break apart.

HYPOTHESIS:

The sometimes familiar clean ocean air scent may be from electrolysis of the sea water. Specific synodic gravitational waves may be responsible for producing the current. Observation: the Ocean like smell that appeared during the electrolysis of sea water. Chlorine like smell from the separation of NACL. Shaking vigorously sea water within a glass jar resulted in no such odor. On certain dates this odor is prevalent.

HYPOTHESIS:

Rock steady TV (others) signals operating for years without problems may experience transmission problems in the near future as synodic orbital relationships change.

HYPOTHESIS:

Some unidentified radio signals will heterodyne with the human bodies natural electromagnetic frequencies. During radio scanning this can be seen when the signal disappears when the handheld radio is let go. The frequency in question cannot simultaneously be detected by two different radios using different sets of oscillator frequencies. The bodies natural frequencies affinity signals can be found using the known's of the radios primary oscillator frequencies. Body capacitance does not seem to be the effect here. Not all people will share the same sets of natural frequencies.

Theremin Reference: Electronics Now Magazine Feb 1996 The Theremin music instrument

The Theremin reacts to anything with blood. Also: Human body wavelengths heterodyne with some television signals. Television signal interference can occur when a person is 15 to 20 feet away from the receiver.

Previously attributed to body capacitance, this distance is too large to have capacitance effects.

HYPOTHESIS : Synodic gravitational waves may disturb underground faults.

HYPOTHESIS: ELOHIM OR CREATOR WAVES:

Synodic crossing of gravity waves produce snaps and pops in radio frequencies. Some may be felt. Photon emissions can accompany. Large surges in long power lines may result from Elohim waves.

Logs:

Mystery blackout hits Western United States July 2 1996. Areas in Portland Oregon went out approximately 8:30 am for several minutes.

USA TODAY Newspaper July 3-4. An unexplained glitch in the Western power grid cut electricity to hundreds of thousands. A ripple effect as power stations shut down momentarily. Blackouts were spotty even within cities. Utility officials said three main electric lines linking the northwest to California went dead, affecting parts of Arizona, California, Colorado, Idaho, Nevada, Oregon, Texas, Utah and Wyoming.

HYPOTHESIS:

If superconductors are known to have the property of blocking magnetic fields, is it not logical to assume that the mechanism that causes this property, could also effect other electromagnetic phenomena? And since we believe that gravity propagates at the speed of light, can we not suppose it is related to electromagnetic phenomena on some level, in some way? And might it not be within the realm of possibility that the mechanism in a superconductor that blocks magnetic fields either partially blocks gravity fields, or in some way blocks a sufficient amount of some electromagnetic field, to cause an effect opposite that of gravity?

A reverse or counter clockwise rotation of the electromagnetic wave should produce an opposing gravity pole similar a opposite pole of a magnet.

MAKING PREDICTIONS BASED ON PAST EVENTS:

The author feels the below are some important past events.

September 8th, 2000. 3:30 AM. A very strong wind (tempest) duration brief possibly very localized, blew down phone lines on Columbia blvd. Also water bed waves dramatic - produced felt like earth quake. Author checked the Webrecorder seismograph on Mt. Hood (see printout and the web page for this seismograph).

April 17th 2001. 2:10 AM. Very special natural electromagnetic waves - Healing waves.

CHAPTER 3: SYNODEC RADIO WAVES

This phenomenon is related to synodic Doppler shifted gravity waves. Please read beach text in file "Beach.txt".

INTRODUCTION: (Gravo-Electromagnetic Storms)

These radio signals are hypothesized to originate from Doppler shifted gravitational frequencies from the orbital motions of earth, moon and sun. Exactly what are we looking for here? Well, we can eliminate all man made noises immediately. These frequencies are weak and sound like static on AM. A good hint is to scan FM but check the AM as well. Remember most of these signals are weak. At certain times during the window a flurry of hundreds of these frequencies will appear. The occurrence and timing of these frequencies is not completely known yet. This paper is designed to give you a general idea of what, how, and when to start scanning. Please read "Beach.txt" thesis and "Radiolog.txt" files. There are a lot of unidentified radio emissions. A member of the Society for Amateur Radio Astronomers is sponsoring a project to try and catalog/identify these. Because the gravity force pulses on/off it becomes much weaker than the magnetic force. Quite often you can hear the pulse on the scanner - it may sound like a crackle at times. However you will have to separate out the television sync frequencies. The new digital signal probably will not have this similar sounding signal.

SYNODEC WHISTLER: POSTED on Hamnet forum 12-12-09

I am studying an unusual whistler that occurs at this time of year near the dates of earth apogee and perigee (January and July) and would like to get some help tracking it. It will be detectable between later part of December through the early part of January.

Depositing the current theory of gravity: I'm looking for men that are interested in taking part in this study. Stalwarts who want to take lead positions. Organizing clubs or individuals in acquiring data and astronomers who can analyze the results. A great amount of foundational work has been laid down already, and will be shared simply by asking. This is guaranteed, a real phenomenon. Ground breaking work, you will be tracking Doppler shifted, heterodyned, gravitational fields, sweeping across the earth. Expect resistance, as many sternly believe in the curved space time theory. This is

The synodic whistler passes up through the radio spectrum at differing rates from below 4 mHz. to 900 mHz and beyond. The whistler is a very weak signal just above the background level. This whistler is not related to lightning or atmospheric effects. The attributes are not fully known as yet. It may disappear briefly then reappear further up the spectrum. You will have to keep your eyes open to keep track of it. The whistler is a very weak signal just above the background - tune in on a peak that is moving up in frequency within the background radiation. The rate it moves through the spectrum is related to the date, time, and your longitude and latitude position. The intensity of the peak may vary, rising up out of the background radiation then dropping back into it.

The whistler is related to earth's rotation and orbit around the sun and travels upward through the spectrum from Noon to Midnight.

Bert Younglove WA7HI tracked the Earth-Sun whistler for several hours in the early part of January, between 8 and 10 p.m. Bert was using a ICOM 756 Pro with an integrated spectrum display. A spectrum display will be required.

As you may already know Einstein's curved space time theory (which has no explanation) seems to be giving way (except by those who cannot accept it), or being enhanced by theories that gravity is a electromagnetic wave. This study is part of this new concept and is based on the following.

If gravity is an electromagnetic wave then it will have the same attributes as all em waves.

These two principles are common to all electromagnetic waves:

1. Electromagnetic waves Doppler shift.
2. Electromagnetic waves combine by heterodyning.

If we assume that gravity is an electromagnetic wave then it will Doppler shift the same as any electromagnetic wave. The elliptical orbits of planetary motions are the source of gravitational wave Doppler shifts. Also, under unique conditions, heterodyning of all electromagnetic waves transpires, of which gravity is no exception. Heterodyning (add and subtract) the frequencies produces two more wavelengths, a larger and a smaller. The larger resultant of the heterodyned gravity frequencies can be detected during certain events. Heterodyning from two separate sources of Doppler shifted gravity waves results in a much longer wavelength that can easily be detected. The two sources here are the earth's field and the Doppler shifted source from the sun due to earth's elliptical orbit around it.

The synodic whistler is related to gravity and the gravity wavelength can be ascertained from the Date, Time, Frequency data obtained at the receivers latitude-longitude position. This data when inserted into orbital Doppler equations can then be used to calculate the wavelength of gravity.

When the data corresponds to the topocentric Doppler shifted velocity data The data will provide proof that gravity is an electromagnetic wave.

Preliminary observations reveal the wavelength is near .0015 Angstroms. This corresponds to a earth-sun (1.) topocentric separation velocity of 300 km/hr resulting in a heterodyn frequency of 555 MHz. This may sound complicated but in reality is quite simple. Imagine a RF source placed on the moon or sun and another source placed here on the earth. The moon's frequency Doppler shifts from its elliptical orbit. Here on earth the two sources are heterodyn resulting in a much lower frequency wave that can be detected using communications gear. I will share computer program that solves by trial and error the gravity wavelength based upon the topocentric separation velocity and the frequency data obtained. I used the moon in the example because the source would burn up on the sun.

There is a earth-moon whistler also but it is more difficult to track and analyze the data. The earth-moon has a 28 day cycle. There is a possibility of three or more separate whistlers.

There is a tremendous amount of water in the atmosphere. I am convinced that there are weather related tidal effects from the moon and sun similar to the ocean tides.

This would be a fun project for Ham clubs or School radio clubs and you could become a part of history. The wavelength of gravity may be ascertained by a close tracking of its frequency. The whistler is there, and can be found if one looks closely. Its just a mater of picking out a peak that is moving upward through the background radiation.

END OF Hamnet Post.

GENERAL PREDICTIONS:

DATES LISTED BELOW ARE THE CENTER OF THE PHENOMENON.

#1. CENTER DATE: January 4th.

#2. CENTER DATE: July 5th.

NOTE: These frequencies appear throughout the year, but can be correlated to the beach sand phenomenon. The frequencies are hypothesized to appear in broken sets. Many more frequencies that are not listed here will appear also. These sets may be found at different times during this window. All frequencies appear as static stronger than the normal background static. The frequencies are geographical, a set appearing in one area may not show up in another for several hours, or not at all.

1. When the sand patterns are well formed (continuous), less rf wavelengths are found.
 2. When the sand patterns are breaking apart an increase in weak rf wavelengths appears.
 3. When the sand patterns have just stopped forming the rf continues for a while, as though the fields responsible for formation have moved out to sea. The number of weak rf waves then reduces dramatically.
- When scanning within a metal car the frequencies appear to reflect and combine many more times, the harmonics are terrible. This may occur only for certain brief times though. (see file Portland.frq). Most of the radio frequencies detected were quite weak just above normal background noise. Most signals are weak carrier waves that sounds like AM static or crackle when heard on FM. At certain times during the phenomenon, manmade transmissions will combine with these wavelengths and can be found on new wavelengths many mega Hertz from the original See Sporadic-E.

Please note:

Regarding: The exact groove measurement to frequency correlation. Often it is difficult to make exact frequency to wavelength correlation. The groove patterns are often formed from the heterodyning of 3 different wavelengths. The resulting groove dimensions stretch from one wavelength to another and another (Visible results of the heterodyning process). This makes the measurement to frequency match difficult. Another factor is the immediate re-absorption of the wavelength resulting in very weak signals. Many other accompanying radio wavelengths from quantum jumps appear in rf but not as sand grooves. Another rf relationship might be found in the snapping apart of the heterodyned waves. This emission should correlate to the difference between the two grooves that are heterodyning. If the grooves are field lines no direct relationship to frequency may be found. Coincidence can result in a wavelength to frequency match. The increase in unidentifiable frequencies accompanying the groove phenomenon is known to exist.

3.2: PREDICTIONS: BASED ON HYPOTHESIS.

The predictions are based upon the occurrence of similar frequencies from year to year. There are daily and yearly patterns of specific frequencies which will appear and then disappear. A few seem to last for several months then disappear. A method to predict the appearance of these is still under development.

The easiest way to predict frequencies is to count down the number of days before the center date take a scan then re-scan the same number of days after the center date on the same hour as before. (Probably will not work due to orbital paths alter). These sets will re-occur many times in the few days near the center dates. world wide on: (use your Local solar time). Your timing may be as much as 2 hours different even if you're on the 46th parallel. Luckily radio waves travel which helps a bit with the timing in your location.

This allows almost perfect syncro of frequencies from one location to another along the same parallel. The only variations are elevation, and maximum sun azimuth, or synchronizing local time to solar time for both locations. Geographical occurrence of frequencies will follow the earth's rotation. Some areas may differ however. Timing will vary with your earth position. World wide Tolerance + - 12 hours approximate. Some may disappear during your scan. Hint: scan from high to low. These reoccur due to the sun angle (see below).

MAKING YOUR OWN PREDICTIONS:

An interesting factor: Take the 46th parallel for example only. The earth's rotation factor is 1165 km\hr. This however varies from 0 to 1165 twice daily depending on local solar time. Here is a simple chart showing the variations. Intervals of Approximate Frequency Matching Occurrences: (use only near the center dates)

SOLAR TIME (Use the program "mltclk.bas" to find your solar time)

First of all to be accurate you must determine your local solar time. One way to find this is to add or subtract 4 minutes per degree of longitude difference between your location and the standard meridian of your time zone. For example: Portland, Oregon is 122 degrees but its zone 8 is on the 120 degree meridian. So there is +2 degrees difference, multiply $2 \times 4 = 8$ minutes. So my noon time is actually 12:08 when in standard time and 13:08 when daylight time. Subtract the minutes if your longitude is less than the time zones meridian. This also can be calculated from WWV. A program is available.

DAILY COMPARISONS: (THIS METHOD MAY NOT BE ACCURATE)

(reoccurring sets- a set you have recorded say at 01:00 hours will reoccur at 11:00)

Hours Solar

Set #1. 01:00+ 11:00+ 13:00- 23:00-

Set #2. 02:00+ 10:00+ 14:00- 22:00-

Set #3. 03:00+ 09:00+ 15:00- 21:00-

Set #4. 04:00+ 08:00+ 16:00- 20:00-

Set #5. 05:00+ 07:00+ 17:00- 19:00-

Set #6. 06:00+ 18:00- (times of maximum rotation velocity)

Set #7. 12:00 24:00 (times of zero rotation velocity)

I suggest you compare your own frequencies in hours that have the same sign. There may be some variations in timing between positive and negative signs.

CALL FOR VOLUNTEERS:

This requires a number of witness recording data about the RF. If your interested, use the logs to record the event in your area then send to address shown.

RADIO FREQUENCY SCANNING: See the radio log for more details.

What you will be looking for is an increase in unidentifiable frequencies normally found outside the window dates. It is a natural phenomena and its signal strength is weak, however some strong signals have been detected.

THIS IS A NATURAL PHENOMENON AND IS NOT PRODUCED ARTIFICIALLY BY A RADIO TRANSMITTER.

Suspect frequencies have been found from 30 to 999 MHz (the range is expected to be larger).

EXPERIMENTS:

1. Triangulation:

Confirm a suspected frequency on two different radios. Using a direction location antenna, attempt to triangulate and locate the source. Compare the rf triangulation angles to the present angles of the gravitational bodes sun, moon, and earth. Log the rf angles if the source cannot be found. Earth ` such as iron oxide may emit a weak rf signal when surrounded by quartz and dampened with salt water (see beach sand) when the gravity bodes Doppler shift frequencies and angles match up.

3 .3: VERY LOW FREQUENCIES: (VLF)

HYPOTHESIS:

An increase in VLF radio waves will occur at times of gravity body Doppler velocity zero crossing. A whistle will occur.

Many of the zero crossing occurrences can be found by using the astronomy Doppler computer program. A zero crossing event occurs when Doppler velocities from earth's rotation and the sun or moon are zero. I will have a listing of these in future revisions of "Synod.exe". At sunrise a VLF radio will often pick up an increase of unusual sounds such as whistles pops and crackling.

Source for VLF radios: (300 - 10k Hz) LF Engineering Co. Inc. 17 Jeffry Road East Haven, CT. 06513 USA.
203-467-3590

FARADAY SHIELDING:

Placing a scanner within a sealed (tightly fitting lid) metal can should eliminate all external signals. However something strange is found to occur. The radio picks up emissions from the metal of the enclosure. These emissions vary from month to month (or longer). I hypothesize these emissions are due to the Doppler shifting of planetary motions. At certain planetary angles and Doppler velocities the gravity waves interact with the metal of the enclosure (and the radio elements themselves) producing new frequencies. The Doppler shifted gravity waves temporarily interact with the molecular and or atomic frequencies of the metal slightly altering their wavelengths (they latch on) (this is absorption). As planetary motion continues the interaction releases (see Planck's Constant). The metal then drops a quantum level and emits a radio wave photon which can be detected. References: Sporadic-E See 1990 ARRL Handbook For The Radio Amateur Pg 22-12.

At the Portland Oregon Zoo there is an access point to a deep underground subway. The area being 460 feet below ground provides a near perfect place to make a radio frequency scan. There presently is no man made rf in the deep subway terminal.

3 .4: FREQUENCIES FOUND IN PORTLAND OREGON USA:

Compare these frequencies to ones found in your area on similar dates and times. My scanner skipped completely over the 512 - 800 MHz area. I'm fairly sure some activity will show up in that area too.

Some frequencies to scan through should be near these areas:

12.3inch= 959.6 MHz 14inch = 843.1 MHz 18 inch = 655.7 MHz

20inch = 590.2 MHz 24inch = 491.8 MHz 26 inch = 453.9 MHz

30inch = 393.4 MHz FOR THE MOST PART THESE ARE APPROXIMATE

NOTE: UHF TV channels 14 - 83 covers the 470 - 890 MHz range.

The frequencies below were scanned using a scanner that jumps either by 5 or 12.5 kilohertz steps depending on its band. FREQUENCIES in mega Hertz accurate within 12.5 kilohertz. Because of limitations of scanner etc, a hit and miss - trial and error search for these frequencies resulted. There are many more I missed, some close together may have a band width. Use your local solar time for synchronization.

Timings Best Position: 46 parallel (yours will vary somewhat HYPOTHESIS)

LOCAL SOLAR TIME: (Approximate)

Most signals are weak just above background and all near the same output level except, the "Sound static AM or FM" listings. Scan range: 450 MHz to 30 MHz. Step tolerance 12.5 kHz.

Listed in reverse order.

(These sets may be good for every year. Most accurate for the 46 parallel. You may find them a fair representation in your area - A HYPOTHESIS). The sound static AM or FM sets are reduced slightly.

Set 8: January 1st 08:00 hours local solar time approximate

Sound FM crackle. AM Static.

455.0625, 446.6375, 434.2625, 379.225, 366.5875, 336.325, 299.175, 288.275, 273.900, 160.640, 155.700, 153.230, 150.755, 149.200, 148.285, 147.975, 145.815, 144.575, 48.460, 47.405, 44.250, 43.195

Sound static AM or FM
290.750, 50.57, 49.830, 49.515, 46.355, 44.250, 43.195

Set 7: January 1st 09:00 local solar time

Sound FM crackle. AM Static.
446.650, 387.675, 366.600, 290.7625, 288.275, 164.340, 144.140, 52.675, 48.460, 47.410, 46.355, 44.245,
43.195, 30.550

Sound static AM or FM
50.570, 49.830, 49.515, 33.71

Set 6: January 1st 11:00 hours Local

Sound FM crackle. AM Static.
434.2625, 384.450, 336.325, 320.250, 290.7625, 288.275, 282.325, 273.900, 164.345, 160.630, 150.745,
48.460, 47.410, 46.355, 44.250

Sound static AM or FM
310.425, 50.570, 49.515, 33.715, 33.510

Set 5: January 1st 11:50 hours Local

Sound FM crackle. AM Static.
383.450, 379.237, 366.600, 336.325, 290.750, 288.275, 282.325, 278.112, 273.900, 154.455, 150.750, 149.515,
52.675,
Sound: static AM or FM
50.570, 49.830, 48.460, 47.410, 46.355

Set 4: January 1st 12:56 hours Local

Sound FM crackle. AM Static.
434.262, 396.087, 383.450, 366.600, 379.237, 336.325, 290.750, 288.275, 273.900, 164.340, 150.750, 145.810,
48.460, 43.195, 33.710
Sound: static AM or FM
50.570, 49.515, 46.355

Set 3: January 1st 14:00 hours Local

Sound FM crackle. AM Static.
446.637, 396.00875, 383.4375, 379.225, 366.5875, 336.325, 299.175, 290.750, 288.275, 282.325, 273.8875
164.335, 144.140, 48.460, 44.250, 33.715
Sound: static AM or FM
50.570, 46.335, 42.060, 36.850, 32.625

Set 2: January 1nd 16:00 hours Local

Sound FM crackle. AM Static.
379.225, 375.012, 336.3125, 326.500, 324.5625, 290.750, 288.275, 273.900, 164.340, 47.405, 44.250, 43.195,
Sound: static AM or FM
50.570, 46.355

Set 1: January 2nd 18:00 hours.

Sound: FM crackle or AM static
446.637, 434.2675, 412.8375, 383.450, 379.2375, 290.750, 288.27282.325, 164.345, 149.515, 48.460, 47.410,
44.250, 33.715,
Sound: static AM or FM

50.570, 49.515, 46.355,

The sets are divided because I am not familiar with the lower frequencies and they may not belong with the phenomenon. Some errors may be apparent (produced by rf equipment). Scan time about 20 minutes.

IMPORTANT: (THIS METHOD "MAY NOT" BE USEFUL)

The easiest way to predict frequencies is to count down the number of days before the center date take a scan then re-scan the same number of days after the center date on the same hour as before. Hypothesis: These may be related to local geological elements.

These sets will re-occur many times in the few days near the center date. world wide on: (use your Local solar time). Your timing may be as much as 2 hours different even if you're on the 46th parallel. Luckily radio waves travel which helps a bit with the timing in your location.

NOTE: THE CENTER DATE HAS NOT BEEN VERIFIED AND HAS BEEN USED AS A REFERENCE POINT.

So, near the center dates we have three ways to compare and match frequency sets.

1. Exact time before and after center date. (good for 10 days or so)
2. Daily comparisons by hour intervals (see chart below).
3. Combination of the above. (advanced equations)

Sets are time date synchronized: Yearly reoccurrence of above sets. (use your local solar time)

Set 1: January 1st 18:00 hours local solar time

Set 2: January 1st 16:00 hours

Set 3: January 1st 14:00 hours

Set 4: January 1st 12:56 hours

Set 5: January 1st 11:50

Set 6: January 1st 11:00

Set 7: January 1st 09:00

Set 8: January 1st 08:00

These are expected to occur near both center dates. They should also reappear several times due to rotation of the earth (time of day).

EXAMPLE OF A FLURRY : Occurred on: January 4th 1995 2:00 PM Pacific Standard Time Astoria Oregon USA . (The flurries usually appear when the beach grooves are in a state of flux, or breaking up)

500.1375, 496.9375, 493.7375, 490.5375, 484.1375, 480.9375, 477.7375
474.5375, 471.3375, 468.1375, 464.9375, 461.7375, 458.5375, 455.3375
452.1375, 448.9375, 445.7375, 442.5375, 439.3375, 436.1375, 432.9375
429.7375, 426.5375, 423.3375, 420.1375, 416.9375, 413.7375, 410.5375
407.3375, 406.875, 406.800, 404.1375, 400.9375, 397.7375, 394.5375,
391.3375, 388.1375, 384.9375, 381.7375, 378.5375, 375.3375, 372.1375,
370.825, 368.9375, 365.7375, 362.5375, 359.3375, 356.1375, 352.9375,
349.7375, 346.5375, 343.3375, 340.1375, 336.9375, 333.7375, 330.5375,
327.3375, 324.1375, 324.1375, 320.9375, 317.7375, 311.3375, 308.1375,

304.9375, 301.7375, 288.275, 282.3375, 272.9375, 269.7375, 265.475
244.1375, 228.1375, 164.345, 155.915, 147.490, 53.730, 52.135, 50.570,
49.515, 48.940, 48.460, 47.405, 46.335, 45.735, 44.250, 43.195, 42.535,
42.140, 41.085, 39.340, 35.820, 34.765, 33.710, 32.940, 32.660, 31.605, 30.550

You will have the most luck finding these flurries within the main window date centered around January 4th and July 4th. The absolute center may not be the most fruitful however. You should find times of similar flurries even in the middle of the desert - away from most sources.

This scan was taken within a automobile but many were checked outside. The power level of many of these frequencies was 2 points above the background level (see setting your squelch level).

During very quiet moments I will record only 6 - 10 frequencies. Look for a common denominator or whole number relationships.

Some areas may differ however. Timing will vary with your earth position. World wide Tolerance + - 12 hours approximate. Some may disappear during your scan. Hint: scan from high to low. These may reoccur due to the sun angle.

These sets will re-occur many times in the few days near the center dates. world wide on: (use your Local solar time). Your timing may be as much as 2 hours different even if you're on the 46th parallel. Luckily radio waves travel which helps a bit with the timing in your location. The frequencies shift to new frequencies, watch for this also.

10.5 FREQUENCIES ALLOCATED FOR RADIO ASTRONOMY:

Frequency, Band, Use

2.50 MHz, 5 KHz, bandwidth
5.00 MHz, 5 KHz bandwidth
10.00 MHz, 5 KHz bandwidth
15.00 MHz, 5 KHz bandwidth
20.00 MHz, 5 KHz bandwidth
25.00 - 30.00 MHz, 5 MHz bandwidth
37.25 - 38.25 MHz
73.00 - 74.60 MHz
79.75 - 80.25 MHz

----- OVER 100 MEGAHERTZ -----

150.05 - 153.00 MHz
322.00 - 329.00 MHz Deuterium Line
404.00 - 410.00 MHz
606.00 - 614.00 MHz

----- OVER 1 GIGAHERTZ -----

1400.00 - 1427.00 MHz Hydrogen Line

1664.00 - 1668.40 MHz OH Line

1660.00 - 1690.00 MHz

2690.00 - 2700.00 MHz

3165.00 - 3195.00 MHz

4800.00 - 4810.00 MHz

4990.00 - 5000.00 MHz

5800.00 - 5815.00 MHz

8680.00 - 8700.00 MHz

----- OVER 10 GIGAHERTZ -----

10.68 - 10.7 GHz

15.35 - 15.4 GHz

19.30 - 19.4 GHz

31.30 - 31.5 GHz

33.00 - 33.4 GHz

36.50 - 37.5 GHz

3.5 ARTIFICIAL GRAVITY WAVE GENERATOR

See my DVD "Synodic Gravitational Sand Patterns" for a device I used to produce wave ripples on a small lake. While it is true that water is paramagnetic and would form ripples from electromagnetic waves from that alone. The theory is still valid. The generator should produce ripples on other liquid surface that absorbs microwaves and is not paramagnetic.

CHAPTER 4: MICROWAVE TEXT

Subject: Elohim or Creator waves, Microwave oven absorption. End of human fingers do not age? Grapes of Wrath experiment.

Another attribute of the Synodic wave is present. At periodic intervals the Synodic waves enter the human body and can be felt physically. These waves seem to be present most of the time but can only be felt at certain intervals. Enclosing one-self in a Faraday cage disconnects the wave from the flesh. I made this serendipitous discovery while studying the beach phenomena. I associated the visual phenomenon with a physical feeling. The strange disappearance of sea gulls after a very strong event aroused my curiosity as well. They may have flown away to avoid exposure. I have called these waves "Elohim Waves after the Creator". These waves

emanate from all mass they Doppler shift from planetary motions then heterodyne on non-linear or ionic surfaces forming new wavelengths. A small percentage of these waves have healing properties. Most seem to cause tissue damage. See below photos of noodle and finger tips.

Ageing and Healing waves.

Occasionally these Doppler shifted waves can be very slightly felt. A very slight buzzing feeling, a uncomfortable or annoying feeling, a very slight momentarily pain in joints. Irritability, possibly even a low audio at times, depending on the strength and time of year. I first made this connection while studying the visual beach phenomenon on an exceptionally strong and unusual formation day. Some people can feel cellular phone wave emissions. Causing ringing in their ears in some cases. Ham radio operators claim they can feel effects in their heart.

Depending on you latitude, elevation, elemental deposits. Intermittent, they fade in and out disappearing for weeks then re-appearing. May not be perceptible to everyone. The characteristics change slightly, phasing in and out of your perceptibly range. Exact timing of events must be Doppler calculated.

Slow accumulating tissue damage. Inspecting the finger tips of the extreme elderly 90-100 years old. You will find the finger tips look like that of a 30 year old. See the microwave experiment results. I have compared the uncooked tips of noodles to fingertips.

"END OF FINGERS" Note: microwaves are radio waves at a frequency of 2.4 giga Hz.

Check the elderly people for young looking finger tips! An age difference on the ends of their fingers relates to the below microwave absorption characteristics of noodles when placed in the microwave oven. The noodles do not absorb readily at the ends. Hypothesis: Synodic gravity heterodyning may cause aging. Slow cooking so-to-speak.

Experiments with the standard household microwave oven have revealed some interesting microwave absorption characteristics. Using the noodle called Fettuccini. When cooked in boiling water as directed it is perfect for this experiment. After cooking it is about 1/4 inch wide and 12 inches long. From there you can trim it to any lengths you want.

Here are the results from a recent experiment using Fettuccine: I micro-waved them in a standard oven for about 2 minutes. At least 1 total length (12 inches) was placed in oven at any one time. Oven may have been interrupted several times during heating for inspection. Be careful, the shorter lengths do not absorb well and oven damage could result. 500 watt oven used. Heating was stopped before any dry areas would occur. Lengths reduced with drying. DON'T use wax paper, it melts, altering the results. Place the noodles on microwave wrap with several layers of paper towels underneath for insulation. Be certain that none of the noodles touch each other. That would allow the wave path to continue into the next noodle.

Length (inches)

2 inches Got hot but would not bubble

3 inches all bubbled at the same location.

4 inches all bubbled at the same location

5 inches similar patterns

12 inches nodal patterns appeared, unless over heated

Basically I looked for bubbling on the noodle which indicated intense absorption areas. Results may differ slightly depending on the wavelength of your oven.

I WANT TO EMPHASIZE ONE PARTICULAR PECULIAR THING THAT OCCURRED ON ALL BUT THE SHORTEST SAMPLES: All had NO BUBBLING on the very ends. I repeat NO BUBBLING for approximately 1/2 inch (1 cm) of the ends regardless of their placement within the oven.--This I feel indicates the wave nature of a taut string. The two stationary mounting end points of the string are the ends of the noodle so to speak. As the microwave vibrates from one end to the other. When the wave reaches the noodles end its amplitude becomes zero thus no heating occurs there. The wave snaps back and forth within the noodle. This is similar to a radio wave emitted from an antenna. The end of the antenna is a zero point. Which brings to mind: The noodle length probably should be a whole number of the length of the ovens wavelength. Adjusting the noodles length should reveal a better pattern of high and low amplitudes, as well as a better indication of the unheated ends of the noodles length. Wavelengths once were measured using a grid dip meter. This meter shows the high and low phases of a rf wave along a straight wire. These high and low seem to be apparent in the noodle. Please use the noodle Fettuccini, it is ideal for this experiment.

NOODLE PHOTOGRAPH: Below: White and Green (spinach) fettuccini noodles.
(Line spacing are centimeters)



BELOW: FINGERS PHOTOGRAPH:



Eighty-two year old woman's hand. Five foot three inches tall. Entire hand is damaged and swollen except for the finger tips. The finger tips look like that of a 30 year old. This is common for almost all elderly. Evidence of electromagnetic wave damage from natural occurring radio waves in the universe. Compare this photo to the undamaged tips of the noodle.

Standard microwave oven wavelength: 122 mm or 2450 MHz. Relating the above 1 cm at 122 mm wavelength to the undamaged length of the elderly fingertips should reveal the average damaging frequencies responsible for the human ageing hypothesis: Proportion:

$$1 \text{ cm} / 2450 \text{ mHz} = (\text{Length of undamaged finger tips } 3\text{-}4 \text{ cm}) / (\text{Damaging Frequency})$$

Solving for Frequency. Answer: 816 To 612 Mega Hertz.

Performing a radio scan for unidentified frequencies in this range may have some interesting results (Date and time relationships).

Some elderly say that their finger tips feel funny, buzzing, etc. Possibly the rest of their bodies nerves have been damaged leaving their finger tips more sensitive. Also: See notes on galvanized steel Faraday shield. (not available). Important Fact: An instrument string tuned for a particular note, will also readily absorb it. Then re-emit it.

Does this have something to do with aging? I know now that it does. Wearing metal woven clothing would shield us from this aging radiation. Brief testing reveals that leaving you head or feet unshielded results in concentrated areas where burns occur. Similarly, under certain conditions a healing wave occurs however much less frequently (see sand pools).

Note: The hypothesized heterodyned gravity waves are rotating helix waves not the standard electromagnetic waves found in radio waves which are simpler sine waves. Thus radio waves should have a minimal effect on body tissues (unless heating occurs). See: Hypothesis twenty-eight.

The toes of the elderly however show similar or worse damage much like the rest of the body. Why? I might hypothesize the wearing of shoes forces the toes in contact with one another, increasing the overall distance thus allowing for wave damage. Also toes are much shorter. Also similar to the grapes of wrath experiment the toes round shape and touching one another may cause an increase in damage. If this hypothesis is correct, cultures which wear no shoes may show less toe damage (wrinkling) in their elderly.

See also the "Salt Water Bed Experiment". (not included due to possible electrical shock danger. Salt water will also damage the plastic bag and produce a dangerous gas after about a week.) .

I have definitive proof that natural electromagnetic waves emitted from the cosmos cause aging. (there are other factors also) They center approximately in the 600-800 mega Hertz range. It's important for you to believe me when I reveal this startling fact to you. "The electromagnetic waves oscillate within our bodies which is mostly water much like a wave on a string. There are nodes and areas which do not absorb them. Our finger tips are an obvious nodal area where the waves are not absorbed. Believe me on this; Visual evidence in the finger tips can easily be seen on older people (their finger tips appear much younger and pinker than the hand.)"

I recommend you immediately get a water bed to sleep on at night. Water absorbs this band of electromagnetic waves and will diminish aging by attenuating these waves from one direction (down). Only surrounding completely with water will completely eliminate most of them. I have a simple microwave oven experiment that shows this evidence in the tips of long objects.

I am absolutely certain of this, do not doubt me. You can be much healthier also. Biblical records of before the great flood people lived 1000 years or longer. At this time the earth had a great water cloud mantel that absorbed these waves.

Free standing conductors and or antennas form high and low amplitudes called nodes. A low energy amplitude always occurs at the ends. Radio men use a grid dip meter to locate these nodes. Energy absorption only occurs at the high amplitude nodes never at the tips or ends.

Note: the natural radio frequency often are rotationally polarized waves which also rotate. This may encourage chromosomal damage. Unwinding chromosomes by breaking the tips off.

A Demo:

Placing sand or rice on a large drum then tapping the side of the drum reveals similar nodal patterns except on a flat surface. Long conductors are similar but form in a linear pattern (along a straight line). The nodal spacing is related to the frequency (cycles per second) which determines the wavelength.

EXPERIMENT #2: Absorption.

Place several peas in a microwave oven. Do not let them touch one another. Turn the oven on for a minute or so. Note that the peas are too small to absorb the microwave and will not get hot. Be sure to place a small glass of water in with the peas to prevent oven damage. Larger objects like grapes will absorb the microwave! This experiment shows a relationship between the size of waves which can or cannot combine. See "Theory.txt" , heterodyning and quantum jumping.

EXPERIMENT #3: "GRAPES OF WRATH"

Find two whole grapes of medium size. Make sure their exterior is dry, and their skin is unbroken. Place them side by side just touching one another within your microwave oven. Standing them upside down works best. Watch closely, they will discharge a large electrical spark between them. This spark should occur within 10 seconds, if they leak/squirt liquid before the spark occurs try again with two more. They also exhibit a weak repulsion force that may cause them to roll away or bounce, much like two like poles of a magnet. Try several different sizes. Optimum size is approx 2 cm. Suggestion: Place them in a whiskey shot glass to insure they touch another.

Hypothesis:

The electrical arc stops when the skin breaks allowing the juice to electrically connect one grape to another. The microwave then is able to pass from one grape to another preventing the electrical wave reaction.

Hypothesis:

A piece noodle the length of a grape will not absorb the microwave. The electromagnetic wave within the grapes must rotate or wrap itself around the circumference within the grape. The rotation of the microwave

within the grape produces the attraction/repulsion effects. Suggestion: look for attraction. (make sure the grape skins are dry for all these experiments)

Variation #2, the Grapes of Wrath experiment: Because the grapes sometimes repel and bounce apart. Tie sewing threads to the stem's of two grapes. Hang the two grapes side by side from a small wooden stick. Make sure they are touching each other. Now tape the stick to roof of your microwave. Allow them to swing freely. Notice, the bouncing does not always accompany the sparking. Do they sometimes attract? If there is no reaction within 10 seconds let them cool and try another pair. (An oven that does not have a rotating platter is recommended with this experiment).

Conclusions: The sparking was not always responsible for the bounce. The bouncing of the grapes appeared magnetic in nature. No sparking occurs when the skin of both grapes were broken and were contacted at the broken area. When the grapes were wetted with water, the sparking was greatly diminished and occurred less often. The skin still presented a fair barrier.

Hypothesis: The skin insulates the two grapes allowing the microwaves to form two separate entities (waves) within each grape.

NOTE: Some microwave ovens have dead spots where no heating occurs. If the grapes/cherries are hung from above they may locate within a dead spot. I suggest using a model that has incorporates a device that fans the microwaves around within the oven. Usually this type has no rotating platter. I had best results with a microwave of this type, especially with the stationary experiments.

Hypothesis: Microwaves become trapped within the grape and sometimes rotate clockwise and sometimes counter clockwise. This rotation is random much like the platter which rotates within your oven. When the rotation within the touching grapes are opposite then the grapes attract and a spark occurs. When the rotation direction within each grape are similar the grapes repel one another. The relative rotation direction within the grapes continuously changes. Not stopping and reversing direction, but the axis of rotation rotates itself. When the axis of rotation has rotated 180 degrees it then appears reversed, thus its repulsion/attraction will reverse. A rotating polarity helix electromagnetic wave is generated within each grape. This wave emits from each grape enabling the reactions. The emitted helix waves are immediately broken up by the microwave oven emissions, thus no distance reactions are noted (the grapes must be touching).

Suggestion:

Try this with a ceramic magnet beside the grapes. Are they on the same wavelength, i.e. will a similar repulsion reaction occur?

Results: A 3/16 inch super-magnet was hung from a thread along side a grape. No reactions occurred.

Hypothesis: No reaction to above because a magnet has a different wavelength rotating helix electromagnetic wave.

Compare the micro-wave length to the circumference of the grape. Is there a whole number relationship? If not, what makes the electromagnetic wave within the grape spin? Hypothesis: A difference between the microwave length and the circumference of the grape will allow the microwave to repel itself within the grape. The self-repulsion from the wrap around may initiate the waves rotation. The start and the end of the wave are slightly out of phase due the circumference limits, thus producing the axis rotation.

Experiment: (What are the limits)? and (Mix and Match).

Try using large cherries.

Results: Two large Bing cherries were hung from above with a thread. The large ones bounced a lot but would not spark. Two more smaller cherries were tried. The smaller ones sparked and bounced. Try one large one and a small one together.

Hypothesis:

The larger cherries will not spark because the wavelength to circumference was not a proper match.

Results: (Plumbs) Very little or no reaction with larger fruit.

Hypothesis: The grape of wrath experiment is related to atomic particle attributes.

Hypothesis:

Are radio waves harmful to human tissue? Similar to the pea experiment, only when the waves are smaller than the object they encounter (length of your body). Since the green peas circumference is too small to trap the standard microwave oven wave, it passes through without damage!

I think you will see the connection to charge buildup and sparks between the grapes and electrostatic effects like attraction or repulsion. I disagree! We need a new theory here!

A static charge would attract small pieces of tissue paper much like a balloon that has been rubbed in your hair.

Try it! The grapes will not attract pieces of tissue paper or even the carbon particles found in a copy machine.

There is no attraction at all!

Also! The sparks stop when Extra large bing cherries are tried. The repulsion force becomes weaker as well.

The smaller cherries spark and repel just fine. Peas do nothing at all. Try using cut off sections of plumbs leaving the skins to touch one another. There seems to be a size relationship here! Also why do they bounce?

Referring to: hanging two grapes side by side by a thread. If a charge buildup was occurring they would remain separated like the gold leafs of a electroscope.

Here is a neat variation on what I call the "Grapes of Wrath Experiment". Try connecting two grapes with a small metal pin about 5/8 inch length. I cut a sewing pin in half for this. Keep the length of the pin short enough so it has no reaction by itself within the microwave. Poke the pin into the sides of both grapes connecting two grapes together. No need to allow the grapes to touch. Now watch the fireworks! You may even see something similar to ball lightning!

Experiment:

Salt water and two grapes experiment: Fill a small shallow glass with mild salt water solution. Tightly Stretch a clear plastic film over the top just slightly above the water (don't allow the film to get wet). Now place 1 or two grapes on the film and place in your microwave. Watch for water movement. Will the grapes repel or attract the water? Suggestion: Use a laser to detect water movements. Results: No attraction.

The resonant frequency of the Hydrogen bond (found in water, fats and hydrocarbons) is close to the transmitted frequency. This transmitted energy greatly amplifies the bond vibration which we measure as heat. Hence the food warms up.

HYPOTHESIS: (grapes of wrath experiment)

The microwave gets trapped within the grapes wall. Because the grapes are spherical and are a correct wavelength to size match. As the wave bounces within its spherical enclosure it begins to rotate -spin rapidly. From this rapid rotation a rotating helix wave electromagnetic wave is emitted. Two grapes placed side by side with a electromagnetic wave passing between them produces two separate counter rotating electromagnetic waves. These waves then react.

A standing wave only needs a half wavelength long cavity. But I don't think that's the issue. If an object is large compared to the wavelength of the microwaves then the induced currents won't travel an appreciable distance compared to object size before the period cycles. So what does this mean? I think what this means is that for small objects one is not going to find a mode where the surface has mostly zero amplitude (or average zero amplitude). With the object smaller than a wavelength/2 then the entire object can become polarized during a part of the wave period. It would be less efficient at absorbing the wave via resistive heating but more likely to arc.

IMPORTANT: (Out-gassing causing bounce?)

Since there is some discrepancy as to what may cause two grapes to bounce apart. Out-gassing often accompanies the spark and or bounce. An alternative to the experiment is to dip the grapes in glyptol or varnish. Glyptol is recommended. Glyptol is a industrial insulator used for electrical parts, armatures etc. After coating was dry the grapes were pierced with a wire from the opposite side, all the way to the inner skin on the other side. This allowed any pressure build up to escape. This combination of glyptol and pressure relief eliminated any out-gassing. Only one or two bounces were allowed before close inspection with a magnifying glass. I was unable to completely determine what causes the bounce even when coated with glyptol. While the glyptol was able to contain any out-gassing it is still possible the grape could have bulged momentarily. My opinion however is: The bounce (after coating with glyptol and pressure relieving) was from electromagnetic wave wave interactions. The grapes must be almost in contact for any reaction at all.

CHAPTER 5: TRAVEL GUIDE:

NOTE: The Oregon Beach can be viewed viva the World Wide Web at two separate locations. This service is supplied by local television news stations. KGW.COM or KATU.CITYSEARCH.COM

NOTE: (For those not familiar with the US phone system.) Phone numbers given include the 1 then the 3 digit area code use this to dial from outside Oregon. Just drop the 1 for all local calls.

You could be coming from a distance so you might as well combine business with pleasure or just take a vacation! Make this the vacation of your life. This is one of the most scenic areas anywhere, with several world wonders! I have included explicit road directions to Fort Stevens from Portland's international airport, where you can rent a car as well as the recommended places to stay. From there an exciting trip down highway 101. Plan on 2-3 weeks depending on how much you take on. Three weeks is recommended.

A brief summary of what will be covered:

FORT STEVENS, Maritime Museum, Fort Clatsop, Navel Air Museum, Depo Bay, Devils Punch Bowl, Devil's Churn, SeaLion Caves, Rogue river jet boats, Crater Lake and More.

I am just touching the places to visit. On your journey down the coast if you decide to take it, you can check for the gravity phenomenon. I have seen it occurring for at least 100 miles or more. Although the Fort has excellent conditions for it.

At the Portland Oregon Zoo there is an access point to a deep underground subway. The terminal being 460 feet below ground provides a near perfect place to make a radio frequency scan. There presently is no man made rf in the deep subway terminal.

PHONE HELP: Oregon Information: 1 503 555 1212

Here are several phone numbers you might find helpful: Both these have dozens of pamphlets describing in detail the places I have outlined below. AAA Oregon Travel Agency: 1 800 281 3118 Warrenton, Oregon. (AAA Membership may be required) AAA members will want to pick up their excellent "Oregon Coast Tour Map". Warrington Visitor Center: or Astoria Warrington Area Chamber of Commerce: 1 503 325 6311

<http://www.oldoregon.com/>

Send \$10.00 for Portland city map and the State of Oregon maps or pick them up when you arrive. My address can be found in the "Beach" file. Astoria, found in many world encyclopedias, on the Pacific Ocean it is approx. 75 miles in direct line northwest of Portland Oregon, USA. 46 deg 12 sec. N. Lat. 124 deg W. Long. Approx. Portland with its international airport is the best place to rent a car for the travel down Hwy 26, the quickest route, about a 2 hour drive. Two great campgrounds (you will need reservations during summer months) are located at Fort Stevens and just across the way is a KOA campground.

KOA Phone: 1 800 762 3443. Ft. Stevens: 1 503 861 1671.

Shilo Inns: 1 800 222 2244 or 1 503 861 2181 Shilo, Warrenton, Oregon –this one is the closest to the phenomenon site (two - three month reservation).

A sleeping bag etc. is minimum requirements for overnight stay in the camp grounds. However, a very nice "Shilo Inn" motel located about 15 miles from Fort Stevens in Warrenton, provides "First Class" accommodations. Shilo Inn is a worldwide motel resort. I highly recommend staying there for convenience. There seems to be plenty of bed and breakfast places also. Climate along the coast is mild and might be quite pleasing in the summer months May - September. But be prepared for wet weather. I recommend you stay at one of the airport motels if you arrive in Portland after 10:00 am local time. That way you can arrange your car rental, else you could get stuck driving at night on unfamiliar roads.

AIRPORT ACCOMMODATIONS: Most of these have a free shuttle service. Reservations are a must.

Shilo Inn Airport: 11707 N.E. Airport Way 1 503 252 7500 or 1 800 222 2244 (suites) Indoor pool and weight room.

Sheraton Airport: 8235 N.E. Airport Way 1 503 281 2500 \$87.00 double

Holiday Inn Airport: 11938 N.E. Airport Way 1 503 251 9991 or 1-800holiday \$74.00 double

Marriott Airport: 11550 N.E. Airport Way 1 503 252 3200

PORLAND AIRPORT CAR RENTALS: (Located on 1st level of parking structure)

Avis: 1 503 249 4950 in airport terminal

Hertz: 1 503 249 8216 in airport terminal 1 800 654 3131

Budget: 1 503 249 6500 1 800 527 0700 in terminal

Dollar: 1 503 249 4792 1 800 800 4000 in terminal

WARRENTON/ASTORIA HOTEL ACCOMMODATIONS: Shilo at Warrenton is closest to phenomenon.

Shilo Inns: 1 800 222 2244 or **1 503 861 2181 Warrenton, Oregon.**

Red Lion Inn 1 800 RED LION or 1 503 325 7373 Astoria.

Salishan Lodge: 15417642371 ***** \$110 \$250 Near Glenden Beach. Has everything +.

LINCOLN CITY:

Inn At Spanish Head Resort Hotel: 5419962161

NEWPORT ACCOMMODATIONS:

Shilo Inns: 15412657701 Single \$109 \$129.00

GRANTS PASS ACCOMMODATIONS:

Shilo Inns: 15414798391

River Side Inn 15414766873 situated on the beautiful Rogue River.

Holiday Inn 15414716144

If you plan on an intense study of the gravity phenomenon a 4 wheel drive vehicle is recommended. Approx. \$300/week.

DIRECTIONS TO FORT STEVENS:

It is about a 2 hour direct drive from Portland to Fort Stevens. Add an extra hour for lunch, so best to leave about 10:00 am. I recommend you purchase both a State of Oregon map and a Portland city map.

From the airport terminal turn on NE 82nd Way. Go 1 mile then turn right on Columbia blvd. Go 4.8 miles on Columbia blvd past both golf courses, then turn right on I5 South. Stay in right lane for about 3 miles then take exit 405 to Beaverton. When you cross the bridge the highway splits, go left toward City Center on South 405. Watch closely here and take the West 26 Beaverton Zoo exit 1D. Go uphill past the zoo. Get in center lane and stay on 26 west to Tillamook/Astoria. You will continue on that road all the way to Hwy 101. That is a bit of tricky maneuvering so if you get lost just ask for directions to the Zoo. I recommend you stop for lunch or dinner at the CAMP 18 Restaurant just outside Elsie, about 60 miles from Portland, see below.

1.5 miles past the largest Sitka Spruce Tree in the United States, approx. 75 miles from Portland, the highway splits (go right). Stay on the main highway north 26/101. 11 to 13 miles from city center of Seaside follow signs and turn left to Fort Stevens. If you find yourself in Astoria you have gone to far. Actually, Fort Stevens is in a small town called Hammond several miles outside of Astoria. If you plan to stay at the Shilo Inn then stay on 26/101 until you come to the second traffic light then turn left, its right there! That road will also get you to Fort

Stevens. Fort Stevens is a gigantic park with three entrances. To keep things simple use the entrance directly across from the KOA campground.

CAMP 18 RESTAURANT AND LOGGING MUSEUM: (on Hwy 26) 1 503 755 1818 You probably should make reservations for lunch especially in summer. The restaurant a log cabin style complex was owner Gordon Smith's longtime dream. A rustic logger atmosphere with logger sized food. Special chain saw carvings of loggers and wildlife and a gift shop. The 85 foot ridge pole in the main dining room is the largest known in the United States and weighs approximately 25 tons. Another favorite feature in Camp 18 is the two fireplaces in the main hall and banquet room. They are built from over 50 tons of natural rock from local areas and most days have a natural log fire to warm and add to the atmosphere. Be sure to walk downstairs too.

Plan to stay three or four days in Astoria and vicinity then continue down the coast line on highway 101. Astoria is the oldest white settlement in the northwest. Founded in 1811 as a fur trading post by John Jacob Astor. From 1813 to 1818 the settlement was in the hands of the British. The Clatsop Indians had a rich, complex culture in this area long before its written history began in 1775. Captain Robert Gray entered the river in 1792 and named it after his ship the Columbia Rediviva of Boston.

Places to visit while in the Astoria area:

COLUMBIA RIVER MARITIME MUSEUM: Has pieces off the English sailing ship "Peter Iredale" including the now antique captains desk. Go aboard the lightship Columbia WLV604 moored alongside the museum. The last "seagoing lighthouse" to serve on the U.S. West Coast.

ASTORIA BRIDGE: Popular in automobile television advertisements. The worlds longest continuous truss span bridge in the world at 4.1 miles. Spans the Columbia river, One of the larger rivers in the world.

ASTORIA COLUMN: (A spiral frieze depicts the early history of Oregon). Located on Coxcomb hill. Dedicated in 1926. All of the events which lead to the establishment of American claims to the Northwest Territory, and the ultimate winning of the West, are colorfully emblazoned on the column which is 125 feet into the sky and 535 feet in length. (A "One of its Kind Exhibit")

FORT CLATSOP NATIONAL MEMORIAL: Located 5 miles southwest of Astoria. Commemorating the Lewis and Clark Expedition. The end of Lewis and Clark Expedition. Commanded by Captains Meriwether Lewis and William Clark, this expedition contributed vastly to American knowledge of the Pacific Northwest and later expansion and settlement. Weekends in late spring and daily from mid June to Labor day Fort Clatsop comes alive. Buckskin clad park rangers give talks and demonstrate activities once performed by the explorers such as candle making, tanning, sewing hides, woodworking, and loading and firing of flintlock rifles.

FORT STEVENS HISTORICAL AREA AND MILITARY MUSEUM: The only military installation in the continental United States to be fired on since the war of 1812, by a Japanese submarine in world war II. Check the fort area for a great historical museum, including huge cannons that killed 6 naval men standing beside it by their concussion.

FORT COLUMBIA: (Just across the river on the Washington side) With a nice display of early American Indian artifacts.

Sport Fishing and Wind surfing:

LONG BEACH WASHINGTON: (about 20 miles north across the Astoria Bridge) Said to be the longest beach in the world. Several easy access ways allows standard vehicles (non 4 wheel drive) to drive on the beach. Twenty miles plus, but don't get into the dry sand without 4 wheel drive. Please do not drive on the clam beds \$100.00 fine. Long Beach is also a tourist attraction boasting a main street full of restaurants, video games parlors, exotic kite shops, hotels, aquarium, and much more.

TWISS AIR SERVICE Phone: 1 503 861 1214, located in the Astoria Airport. Just follow the road signs to airport. For \$100.00 per hour they will fly you down the coast.

From the air you can get an idea just how far down the coast the phenomenon is occurring. This would be especially helpful when the sand pools are forming, or the groove formation is extremely strong and visible from above. Otherwise the phenomena is difficult to see from the air.

***** DIRECTIONS *****

FOLLOW HWY 101 DOWN THE COAST LINE. Turn off 101 at Tillamook for the Three Capes Scenic Route.

SEASIDE OREGON: "OCEAN AIR" 2801 Hwy 101 Seaside Or. (SEE also Twiss Air Service). Airport offers airplane tours for \$30.00 per person.

HUG POINT STATE PARK: South of Cannon Beach This state park has a waterfall, tidal caves fishing, and beach access.

TILLAMOOK OR:

"**TILLAMOOK NAVAL AIR STATION MUSEUM**": 6030 Hanger Rd. 15038421130

Housed in the worlds largest wooden structure (a historic blimp hanger): F4U Corsair, B25 Mitchel, PBY5A Catalina, AD4W Skyraider, TBM Avenger, ME109 Messerschmidt, P51 Mustang, A26 Invader, MK8 Spitfire and More. The famous "Spruce Goose" The largest wooden airplane in the world was put in a another nearby museum. Built by the billionaire recluse Howard Hughes.

CAPE MEARS STATE PARK: I highly recommend you turn off Highway 101 at Tillamook and head for Cape Meares and Cape Mears State Park. Take a tour through a Historic one of a kind lighthouse with a "First Order Lense". There are only two of these types in the world. The light house was rotated by a clock mechanism driven by a 200 pound weight that was wound up every 2.5 hours Along this route you will pass by Pitcher Point, Maxwell Point, and Three Arch Rocks. Stay on the Three Capes Scenic Route. Stop and stay a while at Cape Lookout State Park. Fort Stevens State Park is a great place to camp, Yurts, showers, trailer spaces, full utility hookups. Also slide presentations in outdoor theater. Reservations recommended during peak summer months.

LINCOLN CITY: Stretches along 7.5 miles of coast line. Listed in the "Guiness Book of Records" The "D" river is said to be the shortest river in the world, flowing between Devil's lake and the ocean. The "D" river wayside is a popular kite flying spot with plenty of wind. The town claims the title "Kite Flying Capitol of the World" drawing kite enthusiasts from around the globe to its annual festivals. A factory outlet mall draws shoppers to its 50+ stores. A good place to spend the night and just 20 miles from the Oregon Coast Aquarium. The Salishan Lodge is located just south near Glenden Beach. Also Inn At Spanish Head Resort Hotel: 5419962161 . A magnificent cliff top ocean viewpoint. Just 20 miles from Newport.

Also in Newport:

THE WAX WORKS: (Wax Museum) Mariner Square, 250 S.W. Bay Blvd. 1 541 265 2206. A 5 minute film is presented on Mount St. Helens eruption. and right next store:

RIPLEYS BELIEVE IT OR NOT and **UNDERSEA GARDENS**.

YAQUINA BAY LIGHTHOUSE in Yaquina Bay State Park. Was one of the first navigational aids built on the Pacific Northwest coast. The 1871 lighthouse is furnished in period. Daily 115 June 1Labor Day; Sat .Sun. noon-4, rest of year. Phone: 15418677451

DEPO BAY: Named after Siletz Indian Charles Depot, Depoe Bay is home to the world's smallest navigable harbor, accessible to the ocean through a narrow opening in a rock wall. Waves running underneath the rocks spout up to 60 feet in the air, sometimes spraying across the highway. The "spouting horns" are most visible during turbulent seas and stormy weather. Located right next to the harbor, JOANE CHARTERS offers ocean sportfishing and whale watching. 1800995FUNN or 1 5417652222. Fishing Trips 5 hours \$50.00 per person. Whale Watching Cruises \$10.00 per person.

DEVILS PUNCH BOWL STATE PARK (8 miles north of Newport) Your kids will "Wow" when they see Devils Punch Bowl for the first time. A collapsed sea cave resembling a giant pot that "churns and roars" when filled from below with seawater at high tide. Picnic area and trail leading to beach. Daily dawn to dusk, free. Visit at high tide. Really great during stormy windy weather!

NEWPORT OREGON:

OREGON COAST AQUARIUM: Open every day except December 25. Summer: 9 a.m to 6 p.m. Winter: 10 a.m. to 5 p.m. 15418673474. Off Hwy 101 at the south end of the Yaquina Bay bridge in Newport, about 110 miles from Astoria. The previous home for Keiko a 7000 lb killer whale Keiko, star of the movie "Free Willy" Keiko now resides in Greenland awaiting his release into the sea. Outdoors find six acres of high cliffs, yawning caves, rocky pools, rolling waves and nature trails. Dine indoors or out in the relaxed atmosphere of the Aquarium's cafe and browse in the gift shops for unique, one-of-a-kind items.

To cut the trip short and get back to Portland quick. Take Hwy 20 to interstate 5, then it is express way all the way back. Else you may continue down the coast.

CAPE PERPETUA: South of Waldport. This 2700 acre scenic area named by Captain Cook on his historic 1778 voyage. Devils Churn a crevice in the basalt produces spectacular wave effects. Visitors center provides guide maps to the numerous walking trails that branch out to such places as the Giant Spruce, historic Indian shell mounds, Devil's Churn, and an overlook area at 800 ft. above sea level (accessible by car or trail).

SEALION CAVES: Eleven miles north of Florence. 91560 Highway 101. 1 541 547 3111. Internationally renown: A huge cavern 12 stories high and the length of a football field is the natural habitat of the golden brown Steller sea lion. Both sea cavern and sea lion are the largest in the world. An elevator carries you down 208 feet into the extraordinary multi-hued sea cave. Sea lions gather in this natural amphitheater usually during fall and winter. In spring and summer, they breed and have their young on rock ledges just outside the cave. A perfect experience of the Oregon coast. Whale watching from observation platforms, and gift shop.

**** DIRECTIONS: ****

AT REEDSPORT take highway 38 to Drain and then get on I5 South to Roseburg and Grants Pass. Grants Pass climate is hot and arid in summer.

GRANTS PASS just off I-5 in Southern Oregon.

GRANTS PASS SHILO INNS: 1 541 479 8391

RIVER SIDE HOTEL: Situated on the beautiful Rogue River.

ROGUE RIVER HELLGATE: 1 541 479 7204 or 1 800 648 4874 Four Jet Boat river tours to choose from. From \$21.00 to \$39.00 adult All trips take you through spectacular Hellgate Canyon. where sheer rock walls rise 250 feet. This geologic wonder has been the set for many a movie, including John Wayne's "Rooster Cogburn", and "The River Wild" with Merrill Streep. Choose from Quick and simple to Country Banquet trips relaxing on an open air deck overlooking the Rogue.

If you have time make the loop to Crater Lake.

CRATER LAKE NATIONAL PARK: (Internationally renown) Until about 7,700 years ago. Mount Mazama, a 12,000 foot volcano, occupied the site of Crater Lake. Spewing a layer of volcanic ash around the world. This layer of ash is known by geologists as the Mazama layer, and is used for dating geological sites. Its centerpiece is Crater lake, noted for its deep, brilliant blue color. The lake is 6 miles long, 4.5 miles wide and 1932 feet deep. Drive the rim loop, take a boat tour that includes a stop at Wizard Island. Black bears, elk and mule deer live nearby. It is forbidden to feed the bears, as they are potentially dangerous. There are more than 90 miles of

maintained trails within the Park areas now usually blocks them from October to July. The Sinnott Memorial Overlook provides a view of Crater Lake. Open 24 hours, the Northern entrance of the park opens mid June. Admission to the park is \$5.00 per vehicle. For reservations in the historic, renovated 1915 Crater Lake Lodge at Rim Village call: 1 541 594 2511 or 830 8700.

OREGON CAVES NATIONAL MONUMENT: 20 miles east of Cave Junction. In the marble heart of Mount Elijah at the 4000 foot level, nature has carved and decorated the Marble Halls of Oregon. Pillars, stalactites and canopies of calcite line passageways and hang from the vaulted domes of the cavern's many galleries. The 75 minute cave tour is strenuous with more than 500 stairs; visitors must be accompanied by a guide. Comfortable walking shoes and protective clothing are recommended. Tours are offered daily 8-7, mid June through Labor day Sept: 30: Closed Thanksgiving and Christmas. Under 6 must be over 42 inches tall and pass a stair test. Children may not be carried through cave. Phone: 1 541 592 3400

***** DIRECTIONS *****

RETURN to PORTLAND on Highway I5 North. Probably a eight hour drive (300 mi). Total trip distance is approximately 700 miles if you make the complete circuit. Plan for 2 to 3 weeks depending on how much you take in. Else retrace the route back up the coast and pick up any sites you may have missed.

These are just the highlights of this area. Plenty more is available. I guarantee it's the vacation of a lifetime!! When you get back to Portland you might and still have some energy left then take a drive to Mt. St. Helens. In 1982 an eruption blew its top off. Have fun!

CHAPTER 6: BLANK LOGS

13.1: BEACH LOG (I sorry the logs got disorganized when the file was reformatted but could be reconstructed)

How To Measure Wavelength:

Imagine large coils of spirals buried with in the sand at different angles with various amounts exposed much like a bunch of logs buried to different levels. You can only see the widths (the grooves) so the measurement is dependent upon how much of the coil is buried. Sometimes the grooves extend 100's of feet maintaining their position from one wave to the next as though something stationary was forming them. Something impeding the normal flow of water remains in position wave after wave but slowly migrating until the forces pull it apart where by it grabs hold in another nearby area.

Use the local tide table, the phenomenon often occurs at high and low tides.

Some common approximate distances from groove to groove:

12.3 inch 14 inch 18 inch 20 inch 24 inch 26 inch 29 inch 30 inch 46 inch

You should find the groove to groove distance maintain specific sets of particular dimensions. Even recognizing certain patterns and sets. For example the 12 inch often occurs alone. The 18 - 24 form together. The very wide often occur alone. One must be careful that they actually formed at the same interval. Sets found on the entire beach from high to low tide may vary. Try to estimate which ones formed together at the same time.

IMPORTANT:

Be sure to enter the "Type" of wave(s) that produced the sand grooves. See beach chapter for their descriptions.

BEACH GRAVITY LOG Page _____

Please read "How To Measure Wavelength"

WAVELENGTH or

DATE | TIME AM/PM | TYPE 1,2,3 WAVELENGTH or DISTANCE BTWN. GROOVES Description

13.2 RADIO LOG

SCANNING INSTRUCTIONS

1. Look for an increase of the number of unidentifiable frequencies within the window as opposed to outside the window dates.
2. Make 15-20 copies of the log.
3. The logs have narrow line spaces so you will need a .5 mm mechanical pencil. All stores carry these now days. Use the soft lead.
4. Eliminate your birdies. Make a list of them. You will need to refer to it constantly as you scan. Be sure to include TV stations etc. Note: birdies appear as maximum strength signals and are always there. (see further instructions for this)
5. Set your squelch about 1 notch above the background static level. This is something you will have to determine yourself. These are weak static signals if you set your squelch a tad to high you will bypass almost all of them.
6. Run several practice scans logging as you go. Determine how much area you want to scan. I suggest you skip the cellular phone area as well as the TV channel area, its just to busy. Find your proper squelch level and do not vary it from scan to scan. Always refer to your list of bad frequencies (birdies etc.)
7. Remember these frequencies are intermittent and may appear and disappear even during the window dates as well as during the scan.
8. Limit your scans to 20 minutes each. Scan the same band width every time. You will become familiar with it.
9. Scan several times 3 months before or after the phenomena's center dates. Preferably near noon or midnight. This will help you determine what is and what is not the phenomena (recommended). When the phenomena is least active you should be logging only 5-10 more or less frequencies depending on your scan width.
10. Scan up to 6 days before and 6 days after the center date. These 12 days will be the most active, but will have many tides.
11. Be suspicious of any frequencies that are always there. The phenomenon frequencies are intermittent and most often have a FM crackle sound.
12. The timing of the actual local occurrence in your area may be hard to find. An excellent time to look though should be 1-3 hours after your solar noon time on the center day. When the phenomena is directly on top of you (so to speak) a flurry of hundreds of frequencies occur. Watch for this flurry which lasts for 45 minutes or so. Do not scan in your automobile or nearby any large metallic objects when it occurs, the number of reflections are tremendous. When the phenomena is occurring in another area the frequencies will travel back and you will detect fewer. If you have not previously determined your squelch level you may miss this. A frequency to set your squelch to may be 288.275 mHz.
13. Most scanners don't have meters. So, using your squelch to determine the signal strength is what I do. Once you lock on a signal increase the squelch until it unlocks and resumes scanning. Use the numbers on the clock to represent the signal level. 1=lowest 12 maximum. I found my scanners squelch is optimum set at about 3. My

scanner bypasses these signals at a level of only 4 so this squelch setting is critical. Be sure to reset the squelch level before continuing scan.

14 Additional (Verification Logs):

Once you are certain you have logs of the phenomena you can use the verification logs to analyze the hour relationships and the before and after center dates relationships (see chart for hour relationships). This is fun and is not that complicated. Don't get discouraged. You will have to read the instructions carefully to perform this correctly. What your doing here is part of the prediction/verification. Use the log found in file "predict.log" for verification scans.

- OTHER 1. Signal Direction finding or Triangulation for the source of these signals may prove difficult.
- 2. Video Taping or recording the sound and scanner display. Be sure to have cameras date\time showing.
- 3. SPECTRUM ANALYZER: Tracking with a wide band spectrum analyzer should reveal several different sets of stationary wavelengths appearing at intervals.

LOGS: (USE LOG PROVIDED)

Your Local Solar Time only. Use Mltclk.bas program to find solar time. Latitude-Longitude (Check World Map, Globe, or Encyclopedia) Remarks\description (sound of center and sides of wave, band width, etc). Be sure to fill in your name and address as unsigned logs cannot be used.

DO NOT LOG: Birdies, Voice, TV, Packet radio, (see list below).

Birdies definition: Birdies appear to be stations but are due to the characteristics of your receiver. Your radio's owner manual should have a list, do not log them.

Hint:

Removing your antenna and placing the radio in a tightly sealed overlapping lid container should eliminate most external frequency sources.. By this method you may eliminate birdies. The birdies will appear as signals even when the radio is sealed.. There are exceptions however. Strange enough, some of these waves can penetrate the container and combine with the substrate or elements found in your radio. Most of these I've found occur just around 30-40 MHz. You may want to avoid this area.

Get to know the sound of the various signals in this frequency range by scanning during the times when the event is not taking place. That way you can eliminate any of the unusual sounding signals that are caused such as by the video portion of TV which is usually 5.5 MHz lower than the audio signal. Also packet radio and teletype have quite unusual sounding signals. Skip by any signals like these which are produced by other radio equipment. Scan the FM band but check AM also. A suspect station may be more apparent on FM.

TELEVISION CHANNEL FREQUENCIES (Avoid these)

The video portion of TV which is 5.5 MHz lower than the audio signal

2 54-60 MHz

3 60 - 66

4 66 - 72

5 76 - 82

6 82 - 88

FM radio: 88 - 108

7 174 - 180 MHz

8 180 - 186

9 186 - 192

10 192 - 198
11 198 - 204
12 204 - 210
13 210 - 216
UHF TV 470 - 890 MHz

Some unidentified radio signals will heterodyne with the human bodies natural electromagnetic frequencies. During radio scanning this can be seen when the signal disappears when the handheld radio is let go. The frequency in question cannot simultaneously be detected by two different radios using two different sets of oscillator frequencies. Theremin Reference:

Electronics Now Magazine Feb 1996 The Theremin music instrument

Areas to scan through: 500 MHz - 30 MHz and 999 MHz - 890 MHz. 12inch = 983.5 MHz 14inch = 843.1 MHz

18 inch = 655.7 MHz 20inch = 590.2 MHz 24inch = 491.8 MHz 26 inch = 453.9 MHz 30inch = 393.4 MHz
NOTE: UHF TV channels 14 - 83 covers the 470 - 890 MHz range.

To convert the groove to groove distance to frequency use the below equation.

Freq (MHz) = 11803 / (# of inches between grooves)

Note: C = 300,000,000 meters/second .

BIRDIES: (Pro 43 scanner only): (unwanted signals, your scanner will differ)

33.675 33.775 37.860 37.945 38.00 38.910 45.300 48.045 122.575 139.325, 143.550, 144.140, 154.825,
274.425, 384.362 ?, 432.4125 ?,
450.387tv, 454.650? 463.250, 464.850, 471.250tv, 475.750tv, 480.462 ?
481.7625tv, 483.312tv, 487.750tv, 488.175, 489.775, 501.262tv, 505.787tv
815.600, 901.5625, 903.5625

A good signal to set your squelch level might be 288.275 MHz. (Signal has since disappeared)

RF SYNODIC WAVE LOG Page_____

LOG ONLY STATIONS WHICH YOU FEEL ARE NOT PRODUCED BY RADIO EQUIPMENT.

(Be sure to turn your computer, VCR, Camcorder off etc.)

Place these designator letters beside your frequency entries:

(S)=static (P)=pulsing (C)=carrier only-silence FMCR=FM crackle

LOCAL DATE/SOLAR TIME:_____

SQUELCH LEVEL _____ SCANNER STEP: _____

RANGE: _____ RANGE: _____

FREQ: STRENGTH: STRENGTH:

| | |
|-----------|-----------|
| 1. _____ | 15. _____ |
| 2. _____ | 16. _____ |
| 3. _____ | 17. _____ |
| 4. _____ | 18. _____ |
| 5. _____ | 19. _____ |
| 6. _____ | 20. _____ |
| 7. _____ | 21. _____ |
| 8. _____ | 22. _____ |
| 9. _____ | 23. _____ |
| 10. _____ | 24. _____ |
| 11. _____ | 25. _____ |
| 12. _____ | 26. _____ |
| 13. _____ | 27. _____ |
| 14. _____ | 28. _____ |

LOCAL DATE/SOLAR TIME: _____

SQUELCH LEVEL: _____

RANGE: _____ RANGE: _____

FREQ: STRENGTH: STRENGTH:

| | |
|-----------|-----------|
| 1. _____ | 15. _____ |
| 2. _____ | 16. _____ |
| 3. _____ | 17. _____ |
| 4. _____ | 18. _____ |
| 5. _____ | 19. _____ |
| 6. _____ | 20. _____ |
| 7. _____ | 21. _____ |
| 8. _____ | 22. _____ |
| 9. _____ | 23. _____ |
| 10. _____ | 24. _____ |
| 11. _____ | 25. _____ |
| 12. _____ | 26. _____ |
| 13. _____ | 27. _____ |
| 14. _____ | 28. _____ |

NAME: _____

ADDRESS: _____

CITY _____ STATE _____ COUNTRY _____

LATITUDE _____ LONG: _____ TIME ZONE: _____

BOOK 2: UNIFIED FIELD THEORY

INTRODUCTION TO THEORY:

Searching for a unified field theory. Take all the known physical phenomenon and find some common basis. The only thing that can answer all the properties are waves. Please don't jump to any premature conclusions, I am absolutely certain that gravity is a electromagnetic wave.

This theory was developed using some knowledge obtained from the beach gravitational phenomenon. Unites gravity with the other forces of nature.

Through the application of an aether (Elohim field) some previously unexplained or not well understood physics may be explained. Like what cause a magnet to attract? It will be shown how the Michelson-Morley experiment could be in error. The application of an aether (Elohim field) could nullify the experiment.

Addresses some objections to curved space-time gravity theory. Curved space-time gravity theory has no force associated with it. Instead of a force, mass is considered to be in constant free fall.

In this neo-theory, all the equations remain the same when compared to relativity only the concept changes. I will show how changing the concept ends in the same results as relativity, but replaces the force back in gravity. It all can be explained mechanically with just a few concepts. No more mystery of what causes mass increase, length contraction, and time dilation. The results of Einstein's equations are still valid. Motion is still relative, the explanation becomes apparent. The puzzle of special relativity is now comprehensible.

It is often said of Einstein's special theory, that it is the best theory we have or that it is the only alternative and we simply have not come up with anything better. Consequently we are told not to try to understand the his second postulate (The principal of the constancy of the speed of light) by visualizing some physical process. Einstein simply asserted that this is the way things are and offered no explanation.

The Michelson Morley experiment showed that light has a constant speed regardless of how fast the source was moving. Einstein reasoned that, the only way for the speed of light to remain a constant, is if time could change. He reasoned that the speed of time can change. In this theory I will show how light can appear to have a constant velocity The force is put back in gravity, and the results are the same as relativity.

Relativity's concept of time as a fourth dimension is replaced by the special attributes of the helix wave. The attributes of the helix wave (circularly polarized wave) can alter time and make it appear there is a constant velocity for light. Relativity's concept of time as a fourth dimension is replaced by the special attributes of the helix wave.

This thesis has several variations of ideas all based upon a helix electromagnetic wave. More commonly known as "circularly polarized", but with this twist. They are rotating! I admit some of the variations may be misplaced or incorrect, but on the whole there is merit. One or more of these variations may be responsible for all the forces. The matching of particle attributes to the rotating helix wave theory was not completely determined here. This thesis is an attempt to organize some basic concepts of the rotating helix electromagnetic wave theory and the "Synodic Theory of Gravity". Further development of this theory will be considered by analysis from my peers.

Wave theory based upon the following premise: All forces electric, magnetic, and gravitational can be shown to originate from rotating helix electromagnetic waves emitted from the basic particles and molecules in the case of chemistry. It is known that particles rotate like toy tops, this is the basis for the helix attraction. The waves form the basis from which the attributes of single poles (gravity and particles) and magnetic in various configurations can be derived from. Wave theory supports down to earth quantum mechanics. Only waves of the same size and type may combine. Included also a relationship to chemistry. Both the gravity and magnetic waves hypothesized are of extremely-extremely high frequency well beyond that of light.

Premise 1: The rotation of the helix electromagnetic wave wave enables all forces much like the threads of a nut and bolt.

FTL Faster than light communications..

CHAPTER 1: ARGUMENT AGAINST GENERAL RELATIVITY'S CURVED SPACE TIME THEORY

I will explain things like the Michelson Morley experiment and light bending by gravity in the theory. In the mean time I would like to present these arguments against the current curved space time theory. Not only does it not have a force it does not support quantum mechanics. The mathematics prove to be correct, however I feel the concept is in error.

General relativity's explanation for gravity has no reality in it. It has a flaw! There is no gravity force in it. Instead of a force mass is considered to be in constant free fall There is no attraction force in the space-time concept in the general relativity gravity theory. How can simple questions like, What holds you down to the earth, and why do spring weight scales work ? Hydroelectric power by way of gravity provides a lot of electricity with out a gravity force! There must be an interchange of something for these effects to occur. A matter of semantics. Since gravity is a force and curved space time gravity has no force You cannot say gravity is not a force, but is a result of curved space-time. The word force has one meaning. If it does not push or pull you have misused the word force. period! We might use words in a equation: `Gravity = Force = (Curved space-time gravity theory). We find this equation does not hold true since there is no force in curved space time gravity.

1.1 PLANET COALESCING AND ITS CIRCULAR FORM:

Planet formation theory. You can't have things falling inward following geodesics without violating Newton's 3rd law and still end up with a circle. The earth would end up a slurry or like jelly not possessing the extreme pressure found within its core. Only a true force can provide this. Without a force why would a planet end up round? And, what pray tell would keep it solid in form? There is no adhesion force, it would simply fold in on itself! Nothing keeps the center in the center. The wind, rain, rivers, and earth quakes would have torn it to a shambles eons ago. Fossil records would have disappeared long ago.

1.2 TREES VERTICAL GROWTH: (Geotropism)

Trees use both a sun follower and a gravity sensing mechanism. A trees natural tendency to grow vertical would not respond without some type of force transferring sensing system in effect! Causality and Conservation of Energy no transfer of energy thus no effects. Without the "Geotropism" gravity sense mechanism in effect, trees growing on the other side of the Tropic of Cancer or Capricorn would simply lean toward the sun (equator).

1.3 MOON'S HEAVY SIDE:

The Moon always presents it's heavy side toward earth. (Orbital preference) The moon orbits the earth with its oblong and or heavy side always facing us! The moon maintains an exact rotation rate with its orbit of 28+ days. Only one problem! I present this question to those who believe in curved space-time gravity. How is free fall going to pull one side of the moon more than the other resulting in this alignment, when there is no force involved in curved space time gravity? There are counter arguments against this however. The point is of important however. The opposing orbital forces centrifugal and gravity seem to prefer an alignment. Another example: The space shuttle prefers to orbit either nose up or nose down. It appears the equations for gravity and centrifugal force would conclude a oblong object prefers or seeks to align its axis outward. Since there is no force in curved space time, an oblong mass would not prefer to align in any particular direction! It has no

preference in orbital position. This leaves two possibilities. Either the precision timing of the moon's orbit with its rotation was coincidence, leaving the oblong direction facing out, which I hardly accept, or, curved space-time gravity has a flaw!

1.4 NO EXPLANATION:

Curved space time theory has no explanation. There is no adequate explanation of how mass generates curved space. What causes space to warp? You can just postulate, 'that's what mass does', or try to find a different analogy. Something like matter being a collection of knots or kinks in space. The theory just postulates that mass bends space. It really doesn't fully explain how this happens.

1.5 TWO THEORIES:

I notice that people often use two theories when explaining gravity. Often, "A Force" is referred to when speaking of ocean tides and orbits! Theorists conveniently use the words "gravitational pull" Bouncing from one theory to the other. Either you have a force or you don't I contend that once you have defined the geometry of one theory you can't simply project it back to another theory's geometry. Then began to answer questions regarding forces. This is applying two separate theories to explain one phenomenon. You have set theory constraints (boundaries so to speak) which cannot be altered! You cannot project from curved space-time back to the Newtonian space model geometry. When you declare the space as curved then it is, and that's that! Sure, the math can do it. But the model? There is more than one way to arrive at the correct mathematical answers. I will present here later another model that will answer all these questions and more.

Curved space-time is a concept in general relativity to explain free fall in terms of geodesic paths. General Relativity explains trajectories without the need of any interchange of anything, just the curvature of space. The current theory of curved space-time does not support a connecting force between the moon and earth. It also does not contain quantum mechanics.

Current space time theory explains gravitational attraction as matter obeying its universal law: "Matter, when left to its own devices, will travel along a geodesic". For us on the surface of the earth, all geodesics lead towards the center of the earth. General relativity explains trajectories without the need of any interchange of anything.

1.6 ELLIPTICAL ORBITS:

Unless the curved space warp is elliptical, you cannot get an elliptical orbit without an elastic force connecting the two bodies. The best you can do is either a straight line or a curve directly related to the space time warp. A true force allows for an infinite variety of elliptical orbits. In my opinion orbit simulation programs using the warped space-time equations will not work! Being there is no force to reduce/increase the bodies orbital tangential velocity, just a way to point it in a new geodesic direction. The earth's velocity varies as it whips around the apogee/perigee points. This velocity variance is from a "real" gravity force. The bodies velocity must vary in order to achieve an elliptical state. Would not space time have to be warped in an elliptical shape? Even then, how would the ellipse rotate as is required?

The misused words "free fall" implies a real acceleration force which the space-time warp theory lacks this force!

Curved space-time theory simply cannot hold true! Are we sure we have exhausted all the other alternatives? While it is true Newton's equations no longer hold true at great velocities. Is the only alternative left curved space-time? The answer is No!

1.7 PARTICLE CHARGE:

Although this may seem to be a rather simple question, what gives an electron a charge? What quantum force gives an electron a charge? Why doesn't a neutrino have a charge or a Tao, or muon? No one knows yet. At this point, the charge of a particular type of fundamental particle has to be given as one of its fundamental properties. It is not clear whether or not some ultimate answer is possible, or necessary. In connection with "what is charge", people just beginning in the field learn "that's just how it is", while experienced professionals realize that it has to do with an underlying, unexplained symmetry that "just is". The Synodic theory will explain exactly what a charge is.

CENTRIPETAL FORCE:

Due to planetary elliptical orbits, a minute centripetal force which is at maxima at perihelion and aphelion should exist. For example given earth's orbit around the sun. At perihelion (approx. Jan 3rd) earth's geocentric earth-sun acceleration is approx. .00010259 meters/sec*sec. At aphelion July 3rd approx.) the acceleration is approx. .00009596 meters/sec*sec. These values can be found in the included computer program >Eardop92.exe' Below are calculations of the inertial force of a 100 LB object on Jan 3rd.

Force inertial = Weight * acceleration / gravity.

$$F_i = (100 * .0001026 * 3.28 \text{ ft per meter}) / 32.2 \text{ ft per sec.}$$

$F_i = .001045$ lbs. inertial force for a 100 LB object on Jan 3rd. Answer.

Due to earth's daily rotation during it's orbit around the sun. The centrifugal force pushes downwards or toward the center of the earth at noon then is the opposite at midnight or pushes upwards toward the sky. So the detectable difference between noon and midnight is twice the calculated value when a noon to midnight comparison is made. Jan 3rd is also the date to witness maximum fringe movement from acceleration using a interferometer.

This may be within the tolerance for a sensitive spring balance. A counter weight balance will not work. Since in curved space time theory planets are traveling in straight lines this inertial force cannot exist. Minima dates are:

Oct 1st 7.167×10^{-6} meters/sec*sec and April 2nd 3.89×10^{-8}

MULTIPLE REFERENCE FRAMES: REMOVED INCOMPLETE:

CHAPTER 2. SUPERPOSITION (WAVE MECHANICS)

2.1 SUPERPOSITION -OR- WAVE COLLISIONS: (re-analysis of some basic principles)

HUGE ERROR IN BASIC PHYSICS: POTENTIAL CONFIRMATION OF THE AETHER.

INTERFERENCE:

Somewhere along the line in the study of physics it changes from pure waves, to particles and mass, with mechanical attributes. The appearance alters - resulting in confusion.

DUALITY and the AETHER:

Also light waves must be traveling on a kind on three dimensional net like structure. Could this be the elusive aether I thought? Because the photon is traveling through the aether field it appears as both a wave and a particle. Much like a torpedo traveling through the water. If we could somehow snatch (remove) the torpedo during its flight, its wake would still travel on for sometime. What did you say? Aether? Didn't the Michelson - Morley experiment disprove this long ago? Could something be wrong with that experiment as well? Yep! Wave collision interactions resulting in undetectable velocity shifts in moving matter only along the velocity path. i.e 'the mirrors along the velocity leg'. Undetectable because any detector aligned along this path is affected by the same. This is probably related to the Sagnac effect.

The Sagnac interferometer points directly to the fact that there is an ether field. Provides adequate evidence there is an ether field.

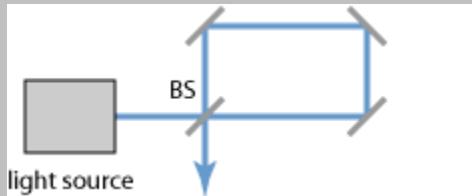


Figure 4: Sagnac interferometer.

A Sagnac interferometer (named after the French physicist Georges Sagnac) uses counterpropagating beams in a ring path, realized e.g. with multiple mirrors (as in Figure 4) or with an optical [fiber](#). If the whole interferometer is rotated e.g. around an axis which is perpendicular to the drawing plane, this introduces a relative phase shift of the counterpropagating beams (*Sagnac effect*). The sensitivity for rotations depends on the area covered by the ring, multiplied by the number of round trips (which can be large e.g. when using many turns in an optical fiber). It is possible e.g. to obtain a sensitivity which is sufficient for measuring the rotation of the Earth around its axis.

Sagnac interferometers are used e.g. in inertial guidance systems.

Knot's or kinks in space: Just existing waves emitted from atoms filling the void. Light probably is a wave packet traveling through a 3d net like structure (the aether). Because light is traveling through the aether field it

appears as either a wave or a particle. Like a torpedo traveling through the water, you can stop the torpedo but its wake will travel on for a time. Like a big hand pulling the torpedo out during its trajectory.

Chemical bonding: waves heterodyning, bouncing apart, rotating and combining.

2.2 THE ELECTRIC FIELD: (Further proof)

It is known that only one electric field can occupy any single place in space. Also the electric field must follow or accompany the magnetic field of any electromagnetic wave. Or vice versa.

A Simple Experiment:

1. Both antennas must emit the same wavelength and phase.
2. `d' Distance apart must be greater than 2 wavelengths.

Given two microwave antennas set at `d' distance apart. Antenna `A' emits a steady standing wave while antenna `B' is turned off. Antennas `A' standing or stationary electric field's wave crest can be detected at point `X'. Now `A' is switched off and antenna `B' is turned on. It also emits the exact wave form (size, form and phase) as did antenna `A'. Also same as `A' its electric field wave crest can be detected at the exact point `X'. Now both antennas are switched on exactly as before. Now both waves attempt to form a electric wave crest at point `X'. But since only one electric field can occupy any single place in space. Both waves cannot simultaneously occupy point `X'. Switching off either antenna allows the other to again occupy point `X'. Superposition does not hold true. So what is happening here. I conclude that a type of bouncing apart of wave crests is occurring instead.

2.3 TWO BEAMS OF LIGHT

At first thought this new view of superposition does not seem plausible! How can two beams of light pass through one another and not be scattered? Even though light may consist of individual photons thus have no connections like in a fishing net. The fact that there can only be one electric field in any point in space keeps the photons separated thus enabling net like characteristics. They are allowed to jiggle but not move their relative positions within a field of photons.

The individual strands may vibrate from side to side but no overall movement of the net is observed. This makes it appear as no collisions have taken place. Much like water passing through a fishing net. The net is not deformed or displaced but the individual strings are allowed to vibrate from side to side. Instead of scattering like two intersecting jets of water, they weave through one another avoiding direct collisions. How then can interference be explained? If we check our experiments closely, we will find that interference only occurs when light strikes a solid object such as a beam splitter. During the collision with a solid object the net itself may split into two separate parts. This forms the first set of interference fringes. See computer program to calculate how the other fringes appear.

As an added note: The source of laser speckle is probably wave collisions involving the same frequency and phase of the beam of light. Question: Why does the speckle shift when you move your head? This may be because light travels on the aether (Elohim field) field (see neo-ether). Example; Place a stationary fishing net horizontally in front of you. When you move your head - eye position to the side the net appears to shift the nodal or knot positions with your movements. The knots represent the interference or nodal positions of the

laser light. Your not seeing the spot so to speak. Your seeing the reflections from the spot back-scattering into the room. The back-scatter forms the stationary nodal net. Moving your head makes the nodes appear to move.

2.4 ELECTROMAGNETIC WAVE TO FORCE CONVERSION:

The energy from the once proposed huge solar energy production array satellite is beamed down to earth. Here energy from the sun is converted to a electromagnetic (microwave) wave beamed to earth and converted to electricity and then to mechanical motion (force) via electric motors.. Then, the question we should ask; If man using the elements of nature can convert an electromagnetic wave to mechanical motion (the force) why could not nature? The answer is, it most certainly could. A force drawn out of an electromagnetic wave is the foundation of the Synodic theory of gravity and magnetism. An electromagnetic wave can be converted to a torsional form enabling a direct transmission of a force without physical mechanics. Through electromagnetic wave mechanics.

2.6 IMPORTANT NOTE:

1. A pulsing stream of unconnected waves when beam split interferes with itself and more than one light and dark band appears. (The pulsing of water stream is analogous to the on/off characteristics of any wave).
2. A continuos helix wave when beam split interferes totally and undergoes a complete collision or a type of repulsion. This type of interference is complete and simply pushes both beams apart resulting in no diffraction bands. See same poles repulsion of magnets.

2.X HYPOTHESIS: (Antenna Emissions)

A common method used to produce circularly polarized microwaves employs two 90 degree apart placed antennas. Both antennas must emit the same wavelength and may be produced from two completely separate sources. One antenna emission is set at 90 degrees to the other. It's like blowing up two balloons one inside the other. They become one. If however the antennas were set too far apart for this to occur. Both waves would remain independent. The balloons so to speak would just bounce off another when their waves intersected.

Question: How is it possible that two superimposed waves with quarter wavelength phase difference enables rotation? This appears to support the new superposition law found in this theory. The first emitted wave pulls on the other later emitted wave forcing a rotation. Since one wave is blown up inside the other (so to speak) a single circularly polarized wave is formed. Using the old superposition rules these waves could not interact. They would simply obey superposition (pass through one another unaffected).

2.7 SUMMARY:

Magnets are probably rotating circularly polarized waves. The high rotation rate would seem to give the wave an appearance of having a solid tubular shell with respect to a similar pole of the same wavelength and frequency.

While a wavelength may be 4 inches in size it is still mostly hollow within. A non-rotating circularly polarized wave is much like a wire spring. Two or more springs slightly out of phase (alignment) may pass directly through another without interference.

2.8 ELECTROMAGNETIC WAVE COLLISION LAW:

INTO FURTHER. As the ether net may answer.

"Electromagnetic waves of the same wavelength and phase collide".

THIS WILL HAVE TO BE LOOKED

This results in the commonly known interference pattern Bouncing off one another temporarily re-directing their paths then mostly resuming their original course after the collision. This is the foundation of the Synodic Theory of gravity and magnetism.

Interference is the result of wave collisions, not as scientists thought of as constructive and destructive interference or energy cancelling. Laser light spreads out much less than white light because its waves are monochromatic and in phase thus less collisions occur.

There can only be one electric field in any point in space. This applies only to free space electromagnetic waves. Electric waves that travel down a wire will add and subtract (heterodyne) when they encounter a nonlinear or ionic surface. They cannot heterodyne without a non-linear or ionic surface, so no rf will form 'between the planets' from Doppler shifted gravity waves. Only pulsed waves (like light which has a wave particle duality) produce interference patterns as will be explained later.

Simple experiment: Blowing a stream of equal sized sand particles through a double slit may result in an interference pattern. This will not work because there must be exact equal spacing between the particles and they must be uniform in size and shape.

CHAPTER 3. NEO-ETHER

AN ADVANCED AETHER CONCEPT. A REALITY CONCEPT. A FIELD THAT PERMEATES EVERYTHING. THE CLOCK WORKS

If Michelson Morley had used a Sagnac interferometer in their famous experiment the conclusions 'at that time' would have been entirely different.

Why was the ether field searched for originally with the mm exp?

Lorentz transformation of the electromagnetic field

The fact that the electromagnetic field shows relativistic effects becomes clear by carrying out a simple thought experiment:

http://en.wikipedia.org/wiki/Lorentz_transformation

I read the web page on Sagnac interferometer. It explains the Lorentz transformation is responsible for the phase change. This I agree with. However the Lorentz transformation also applies to electromagnetic fields. The ether field as an electromagnetic field so undergoes this transformation as well:

http://en.wikipedia.org/wiki/Lorentz_transformation

The theory of relativity has no force associated with it and does not connect with quantum mechanics. It does not have a force 'isn't there something wrong with that?'

Ether theory as a helix electromagnetic field can produce a force can undergo the Lorentz transformation thus time dilation, and can be associated with quantum mechanics, in addition can answer wave particle duality.

The tiny size of the wavelength allows it to penetrate everything. If gravity waves form the aether then they will drag the fields along with them.

I believe if MM had used a Sagnac configuration which shows positive fringe movements the conclusions would have been entirely different.

USING THE EXCEPTION TO SUPERPOSITION (NEW LAW) A MECHANICAL EXPLANATION OF THE LAWS OF RELATIVITY CAN BE DERIVED.

INTRODUCTION

The Michelson Morley experiment in 1887 was the turning point - the decisive experiment in determining there was no aether (Elohim field). Many scientists at that time including Michelson and Morley could not believe the results. I can explain how this could be and is in error, and place the aether (Elohim field) back into physics. Please read on.

Einstein introduced the theory of relativity. Here is the opening passage:

It is known that Maxwell's electrodynamics -as usually understood at the present time-when applied to moving bodies, leads to asymmetries which do not appear to be inherent in the phenomena. Take for example, the reciprocal electrodynamic action of a magnet and a conductor. The observable phenomenon here depends only on the relative motion of the conductor and the magnet, whereas the customary view draws a sharp distinction between the two cases in which either the one, or the other of these bodies, is in motion. Examples of this sort, together with the unsuccessful attempts to discover any motion of the earth relative to the "light medium," suggest that the phenomena of electrodynamics as well as of mechanics possess no properties corresponding to the idea of absolute rest. He then went on to state the two postulates on which his theory is based. These are the "universal principles" he thought must exist.

Einstein made two assumptions that are the starting points for his theory. The two postulates in the theory of special relativity are:

1. THE PRINCIPLE OF RELATIVITY: All physical laws have the same form in all inertial frames.
2. THE PRINCIPLE OF THE CONSTANCY OF THE SPEED OF LIGHT: The speed of light in free space is the same in all inertial frames. It does not depend on the motion of the source or the observer.

The principle of relativity extends the concept of covariance from mechanics to all physical laws. The attributes of the helix wave (circularly polarized wave) can alter time and make it appear there is a constant velocity for light. Relativity's concept of time as a fourth dimension is replaced by the special attributes of the helix wave. It will be shown how the second postulate is in error.

3.1 SHIP IN THE SOUP: A neo-aether illustration or paradigm.

There is this little space ship floating around in this strange soup. The soup also has a number of other objects floating around in it. Every time the ship or anything else moves they affect one another's physical internal atomic makeup. Winding or spinning up atom like structures that control many of the ships physical properties. This is because the soup consists of these thin elastic strands that connects everything together. The strands allow movement but transmit energy that affects all other objects in the soup.

All of the objects emit the strands. The bigger or heavier the object the more strands it emits and the harder it is to push. When any object moves in this soup, its strands pull on all the other objects, thus making it harder to push. Once it gets in motion however, the strands signal back and say, "ok, I see your in motion go ahead you're free to move, but don't go any faster! If you go faster, I will pull on you some more until I can signal back" and again say, "I see your in motion again, but don't go any faster or I will pull on you again."

Explanation:

The strands are helix electromagnetic waves that interact like nuts and bolts or like the old push drill that rotates the drill when you push down on the handle. The drill has a helix thread with an extremely long pitch. Pushing on the nut rotates the drill and vice versa. The strand is the shafts helix and the nut is the object. Pulling on the strand rotates the bolt. Since the strands are in constant connection there is no delay however two conditions exist. 1. A flexure delay 2. Immediate response. This is the helix or circularly polarized wave as will be described later.

The physical properties affected are things like inertia, light velocity emissions and the size of the ship. The strands are circularly polarized waves emitted from all mass. They have a special property however; They are rotating. The polarity rotation along with the superposition law enables a transfer of forces along with some other properties of light.

Mainly only the strands along the line of movement are pulled upon. Those strands connect to little flippers that emit light. The little flippers can emit light all directions. The little flippers are riding on springs (helix). The springs are connected to the strands. They rotate or spin faster as the ship travels faster through the soup. Much like pushing a propeller through the water. As the ship goes faster, the springs in alignment with the velocity compress. Since the springs are the main property of the ship, the ship shrinks in size but only along its length, the direction of travel.

Note: All matter is composed of waves. Solids including particles are constructed entirely of waves. Particles are wave constructs see Tom Lockers book ref. The springs and flippers as described here must be assumed to be constructed entirely of helix waves to help enable your cognitive reasoning powers. Further reading will help if you stick with it.

3.2 CONSTANT VELOCITY OF LIGHT:

There are many springs all pointed in different directions. The little flippers are mounted all along the coil of the springs. The springs rotate along their axis making the flippers appear to be moving backwards against the velocity. The springs emit the strands. The faster the ship goes, the faster the springs along that direction rotate. Since the springs rotate as fast as the ship goes and the light flippers are mounted to the coils of the springs. Light always appears to have the same velocity.

A Different Perspective On the Constant Velocity Of Light: See Included (in synod2.exe) Gif 3.A on the interferometer experiment.

Much like a base ball pitcher standing on a rotating platform (he is facing opposing the rotation). The faster the platform (the object) moves linearly forward it equally increases its counter rotation. Thus the ball always releases from the pitcher's hand at the same velocity. The two velocities add one is positive the other negative. The result is always the pitchers arm velocity. Similarly; Except that the photon is emitted from a point on a rotating helix. An objects internal structure rotates when moved relative to the galactic frame of reference. Thus when the photon (the ball) is released it always has the same velocity.

The internal makeup of the atom is synchronized to the galactic frame of reference (this can be understood by closely understanding the Ship in the Soup paradigm).. Any object's velocity relative to this frame imparts a equal counter rotation in it's internal makeup responsible for photon emissions. The syncro mechanism responsible for this counter rotation are, circularly polarized or helix waves (the soup). The helix waves interact much like the helix threads of a machine bolt, linear movement and rotation are synonymous. Since the helix waves are emitted in all directions, only the helix's facing along the velocity vector line are affected. Thus ship shrinkage is along the velocity vector only.

PARTICLE LIFE:

Consider the particle as a nut (the nut of a nut an bolt) in the below representation.

Why does a particles life last longer the closer to light speed it travels? The faster it travels the faster it spins due to its passage through the soup aether (Elohim field). Passing through the strand helixes the particle internal makeup increases spin. A particle is fired into the soup at nearly light speed. It then strikes another particle transferring its momentum. It must spin down to disintegrate. But since the particle's internal structure already has a high rate of spin. Its spin rate only increases further at near light speed. There is an error in this analogy however. The inertia helix is proportional to the velocity. Life of the particle and mass increase is not. The answer is a gear down of rotation rate is transferred to lower spin rate to waves that control size and time or life of the particle. Much like a clock works. Since they are rotating much slower no effect occurs until near light speed. It then emitting its own electromagnetic wave which reduces in wavelength as the velocity increases. The wave begins to match closer and closer the soups helix wave size increasing the mass. The closer the waves match the better the bonding and greater the energy transfer (bonding will explained in chemistry section). This all occurs due to the internal makeup of the particle.

The gear train is a result of wave repulsion from the star pattern (or gear) emissions from the molecule or atom two rotating star patterns having a different number of points (much like two gears of different ratio) interact. The repulsion between the gear waves (see superposition) enables the rotation and gear train effect.

Electromagnetic waves in star like patterns (akin to the lobes on molecular models or atomic orbital lobes) operate like minute gears. The exception to superposition enables this. This has been shown to be true on the molecular scale.

This is similar to the magnet produces electric current part of this theory. As the magnet passes over the wire the faster it passes over the wire the greater the voltage. The waves from the two initially are just beyond in size difference to react. However increasing the velocity between the two spins up the rotation rate of that one as it passes through the soup. The two waves (helix) now begin to interact producing a current, or rotation the helix wave. An alternative is just a force reaction between two equal sized helix waves producing a current.

3.3 INERTIA AND MOMENTUM:

THIS DESCRIPTION IS IN THE SOUP EXPLANATION.

A frictionless nut (the object) riding (rotating) on a helix thread (the soup). The nut is forced to spin at a rate relative to the objects velocity. The nut maintains its rotation rate as long as the objects velocity is constant. When the velocity of the object is reduced the nut engaged on the helix thread dumps its energy into the thread producing an equal and opposite force. A force on the thread and an opposing force on the nut. This is how Newton's laws are satisfied.

ALTERNATIVE:

Like two SloSyn syncro servo motors in series. Any movement of one motor shaft is immediately transferred to the other motor by the connecting wires. Both motors have weights attached to their shafts. The wires between them carry the inertial force (momentum) of their weights transferring it from one motor to the other. The

inertial force is transmitted from one motor to the other. The wire connecting the two motors is equivalent to the strands in the Ship in the Soup paradigm. The strand wave emissions from a mass align with the direction of motion. This is inertia.

An alternative; Two different spin helices of a particle. One helix has a direct connection to the strand helices. Any movement directly causes it to spin faster. Inertia may have a separate wavelength helix from mass, but the effects are the same.

3.4 CONSERVATION OF ENERGY:

Since the momentum is shared viva the helix wave throughout the universe. Conservation of energy is maintained. Energy emitted by mass enters the soup and is shared by the mass in the universe. It propels itself. Like an enclosed box of heat a perfect thermos, no energy escapes. Energy conservation is maintained.

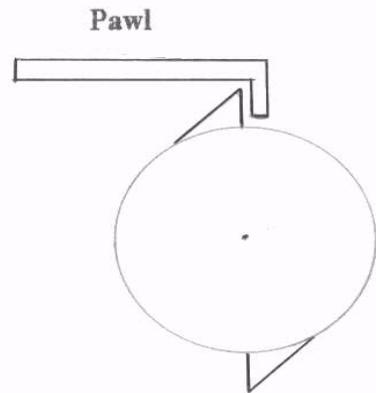
3.5 MASS INCREASE:

According to an interesting article in the current issue of the Chemical & Engineering News:
"[A] new class of synthetic molecules is capable of rotating like compasses and gyroscopes. Crystals may appear to be solid and static, but their sturdy molecular frameworks can support a sea of motion--chemical groups that spin freely, thanks to the frictionless triple bond. Taking their cue from natural examples of this type of molecular motion, [scientists at the] University of California, Los Angeles...are developing a new class of materials they call molecular compasses and gyroscopes." The article in C&EN is not available to non-subscribers, but the references to the appropriate technical articles in the Journal of the ACS appear to be accessible:

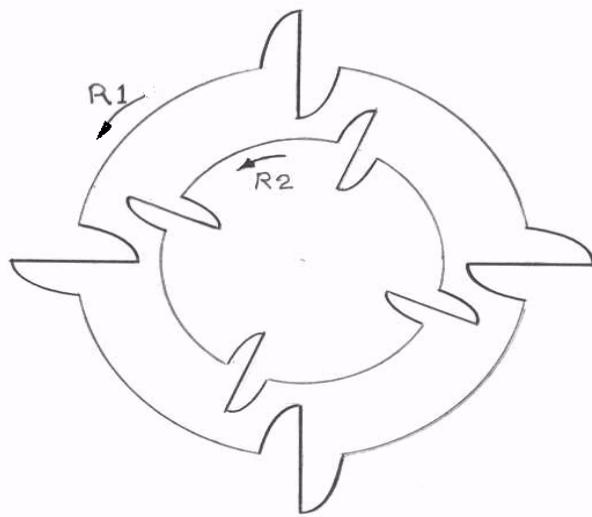
<http://pubs.acs.org/cgi-bin/jcen?jacsat/124/i11/html/ja0119447.html>

I propose that the atomic structure can do the same. Since particles are entirely constructed of waves. What causes the near light speed mass increase effects? Near the speed of light the geared down larger gear begins to latch on to the strands helix. At this point the small gear driven by the larger attempts to increase rotation rate dramatically. But since it is already connected to the strands helix, it resists acceleration. This resistance appears as a change in mass (and in fact is). Its all interconnected. A syncro effect occurs. The large gear acts like a nut only (see nut bolt description). If it emitted another helix strand there would be another helix interaction. The mass increase only occurs along the direction of travel. This is because only the helix aligned with the direction of travel are affected.

A mechanical explanation of time and mass increase at near light speed: It is known that molecules interact with minute small gear like structures. A gear and pawl mechanism similar to the one found in a winch, or a one direction of rotation pawl mechanism. This could be a reason for the increase in mass. See the Pawl Ring Gear and Ratchet drawing. The inner gear rotates at a higher rate than the outer. So the pawl and cog gear remain disconnected. As the outer gear rotation increases to meet or exceed the inner gear te pawl engages and time begins to slow and mass begins to increases.



PAWL AND RATCHET WHEEL
ONE WAY MECHANISM



PAWL AND RATCHET GEARS FORMED BY SAWTOOTH WAVES

Wave Deforms or Flexes allowing rotation in one direction

IF: $R_1 < R_2$ Then Pawl is Disengaged
IF: $R_1 \geq R_2$ Then Pawl is Engaged

3.6 LENGTH CONTRACTION:

Length contraction from near light velocity is similar to mass increase. As the helix waves of the mass increase rotation rate along the direction of travel. The rotation rate increase reduces the wavelength of the emitted strand helix from the mass through the gear reduction. Mater being composed of waves (which build the particles) shrinks from the wavelength reduction caused by the increased rotation rate. The shrinkage similar to mass increase only occurs along the direction of travel. But measuring the contraction in its own frame of reference shows no change in length because the instrument used to measure also has changed in length an equal amount.

3.7 THE MIS-INTERPRETATION OF THE MICHELSON MORLEY EXPERIMENT. (The Constant Velocity of Light and the search for aether (Elohim field).)

The helix electromagnetic wave and the error in superposition evokes a new twist in the Michelson - Morley interferometer experiment. When the light strikes the mirror (reflects) it leaves at a different velocity. The mirrors photon emitter flippers ride on the helix gear. Since the helix rotates with the forward velocity. A photon emitted from the flipper toward the direction of movement experiences a reduction in velocity. Light emitted from the direction opposite of the velocity experiences an increase in velocity. Thus an interferometer is unable to detect velocity, only an acceleration. Like a clock running inside a space ship is unable to detect its time dilation, the interferometer is unable to detect its own velocity. Also see Illustration 3.A. Since mirrors are used in speed of light experiments they are invalid as well.

Since this is the foundation for relativity, the theory of relativity is flawed. The current relativist based space ship paradigms must be re-evaluated.

ILLUSTRATION 3.A MICHELSON - MORLEY INTERFEROMETER EXPERIMENT: A mechanical representation of how the velocity of light always appears as a constant.

ILLUSTRATION 3.A

A Mechanical Representation of How the Velocity of Light Always Appears as a Constant

MICHELSON - MORLEY EXPERIMENT: Leg Parallel To The Velocity Only.

Velocity of Experiment



BATTER

PITCHER

EXPERIMENT
REF. FRAME

GALACTIC
REF. FRAME
(STATIONARY)

GEARS

STATIONARY HELIX OF THE GALACTIC FRAME OF REFERENCE

See Text For Explanation

The dashed line separates the experiments reference frame from the galactic frame.

B=Batter, P=Pitcher. Pitcher is the photon emitter, Batter is mirror M1

|| = represents gear driven shafts which rotate the platters in sync with the galactic frame.

Batter and Pitcher are standing on the platters facing each other. Both platters rotate clockwise in sync. Note: Both Bat and Pitcher's arm always have the same constant velocity relative to the platters. Only the platters rotation rate changes with the experiments velocity.

The pitcher releases the ball when both batter and pitcher directly face each other.

Velocity of Ball (photon) = Pitcher's arm - Platter rotation rate

Ball Leaving Batter = Bat velocity + Platter rotation rate

Summation of Both Directions = 0 Thus the experiment is unable to detect constant velocity. The other leg of the experiment is unaffected (mirror M2's path) It's three dimensional. The galactic helix passes through all matter enabling the syncro (see theory)

A beam of light from the headlamp of a speeding locomotive will not move faster than the speed of light because it is emitted from the pitchers arm.

HYPOTHESIS ALTERNATIVE #1: INTERFEROMETER AND ACCELERATION:

The ability of an interferometer to detect acceleration is due to a time delay in the return signal in the loop (gravity net). There is a lag in the feedback loop along that leg of the interferometer in the direction of acceleration. Like the slosyn motors It's an energy feed back loop with an inherent delay. That produces a phase delay that appears as fringe movements.

HYPOTHESIS ALTERNATIVE #2: INTERFEROMETER AND ACCELERATION:

Fringe movement is due to the elasticity in the helix electromagnetic wave within the object. The side facing movement is under compression, while the opposite side is under tension. As long as acceleration is present, compression and tension forces cause deformation of the objects helix waves. A photon bouncing off a forward facing mirror has a different velocity than one reflecting off a backward facing mirror.

SPEED OF LIGHT:

Most light speed experiments use a mirror to change the light direction. They are unable to detect a velocity change.

A revised experiment:

An experiment similar to Fizeau's method only using two spinning toothed wheels in exact synchronization instead of one. No mirror is employed to reverse the direction of light.

The wheels would be separated by a large distance. The experiment is then conducted in a similar fashion as Fizeau's. Note: Sensor's, like the mirror's, are under the same delay - this may make detecting the velocity of light impossible.

ALTERNATIVE:

The speed of light is nearly instantaneous. The wave carries some type of velocity encode that interacts with matter. Due to the encoding, measuring the speed of light always results in c.

3.8 GRAVITATIONAL BENDING OF LIGHT:

Einstein employed Huyghens's principle to calculate the deflection of light propagated across a gravitational field. This remains unchanged. If gravity is an electromagnetic wave then it would obey similar principles attributed to all waves. This would account for the full bending of light by gravity. There also may be minute interactions of all rotating circularly polarized (helix) waves.

3.9 TIME TRIES EVERYTHING TIME MOVEMENT:

The special attributes of the helix wave can affect time.

It is known that moving clocks exhibit a time shift (run slower) relative to their velocity. The helix wave is minutely flexible. The faster an object travels (constant velocity) the more torsion it places on the inertial helix electromagnetic waves. This translates to a time delay. This is the mechanism for the time delay and the reason why clocks run slower. The torsion causes flexure along the helix within the object. The torsion minutely alters the wavelengths of the object (like placing a torque on a helix or spring). The closer the two combining helix waves match the faster is the chemical reaction, the further apart the slower (see chemical combining and or Planck's constant). The torsional torque's up to a point then remains there. The torsional twisting moment only becomes apparent at high velocities. There is a minute amount of mass in the helix wave enabling the immediate torsional transfer of energy. Effecting the speed of chemical reactions, but for similar reasons as the Michelson - Morley interferometer experiment, it is undetectable in that reference frame, since everything is affected in that frame. Comparing time between a stationary frame and one that has undergone a high velocity reveals a time difference however.

Interferometer: As long as the velocity of the object remains constant the light fringes on the interferometer (MM experiment) remain stationary. If the velocity remains constant the torsional stress remains constant and no fringe movement is observed.

Time tries everything. Due to the objects connection with the soup, when an object moves it its strands (helix wave as described in Ship in the Soup) relays its movements at the speed of light to all parts of the universe then back again, a loop or connection. The normal is the universe center of inertia, an imaginary center in the universe. This is an alternate inherent time delay mechanism. All mass shares this inherent time delay mechanism.

THE SEA: (Immediate transfer of information) The "O's"

Another mechanism that could exist is an immediate transfer of information to the galactic center or all parts of the universe. The soup may also appear as a highly ridged structure not based upon the helix and its flexure properties. This mechanism is much like a bunch of balls all touching one another. Electromagnetic waves packed full one against another. The movement of one ball immediately (no delay) transfers to all parts of the universe. This then not using the helix, is a non inertial response. No inertial energy is transferred (which requires the helix), there is no reply back. It might be detectable however.

3.10 COVARIANCE:

The laws of mechanics are covariant-they have the same form in all reference frames. $F=ma$ in one frame is the same in all reference frames. Mechanics on a ship moving at constant velocity is the same as it on land.

However, when the same considerations are applied to the laws of electromagnetism, problems arise.

1. Two equal point charges q moving with the same velocity develop a magnetic attraction. The repulsion force between the two particles is therefore reduced by the magnetic attraction.

Point 1 is explained as follows: As a particle passes through the soup another helix wave (the magnetic field) is formed through the engagement with the soup helix.

In the Synodic theory - because it is that the helix wave's phase rotation rate that increases with velocity along the helix within the object. The torsion minutely alters the wavelengths of the object (like placing a torque on a

helix or spring). The closer the two combining helix waves match the faster is the chemical reaction, the further apart the slower (see chemical combining and or Planck's constant). Effecting the speed of chemical reactions, but for similar reasons as the Michelson - Morley interferometer experiment, it is undetectable in that reference frame, since everything is affected in that frame and chemistry and physics remains unchanged.. Physical laws remain the same as velocity increases. The rotating circularly polarized helix wave within objects self-corrects any abnormalities by self-syncing with the soup as was shown in the Michelson - Morley experiment's explanation. It remains synced with the galactic inertial frame.

3.11 NEO-ETHER ALTERNATIVE:

An important alternative: Electromagnetic waves are simply movements of the aether (Elohim field). Much like water waves. Like a huge three dimensional net, waves are the movement of this net. All helix concepts remain the same.

OTHER:

The star gear is formed of star pattern electromagnetic radiation emissions. See chemistry.

3:12 Hypothesis for a Faster Than Light Transmission.

During an intensive research on gravity I discovered a novel way to send instantaneous information If there are advanced civilizations out there (extraterrestrials) they would certainly be transmitting using this method. Otherwise as you know, transmissions would take decades to get here. If advanced extraterrestrials are sending then you would have to adjust your receivers to pick up this type of transmission.

A normal signal, like a projectile must propagate from point A to point B one step at a time.. Riding on the electric and magnetic field.

Example of the setup.

Establish a continuous standing microwave beam from point A to point B. This beam must be rotationally polarized and as uniform and stable as possible. Now impart a slight rotation into the wave, this is the modulation (phase modulation). Alter the rotation rate to modulate the signal. The receiver at point B is designed to pick up minute phase modulations. The receiver picks up the tone of the rotation of phase.

The difference is you are rotating the wave, not placing a pulse on it. Because the continuous transmission wave has no mass and each oscillation prefers to remain equally spaced at the frequency (the opposing magnetic field keeps each individual oscillation at a constant distance much like an imaginary line of weightless magnets individually hung by strings). A faster than light signal may be transmitted by only rotating the existing wave. The wave has no rest mass, thus no counter-acting inertia, thus the signal travels instantaneously.

Note:

The beam must be a uniform rotationally polarized wave as possible to reduce deforming. To transmit a faster than light signal a receiver capable of detecting minute phase modulations is required. Also only certain select wavelengths may work correctly. These will have to be confirmed by experimentation.

Using the already existing gravity electromagnetic field, vast distances can carry information instantly; I have absolute proof that gravity is an electromagnetic wave. A wave with a very special attribute.

CONCLUSION:

While I have given more than one alternative in several areas, the concept is still valid.

CHAPTER 4. MAGNETIC AND GRAVITY THEORY

INTRODUCTION:

An excerpt from: THE ARRL UHF/MICROWAVE EXPERIMENTERS MANUAL pg. 5-8.
On the polarization of the receiving and transmitting antennas.

"If the wave rotates in a clockwise it said to be right hand circular. Counter-clockwise rotation results in left-hand circular polarization. TEM (true transverse electromagnetic) wave propagation between two circularly polarized antennas of like sense will efficiently couple from one to the other, regardless of how the propagation path may further rotate the orientation of their fields. However, communication between circularly polarized antennas of opposite sense suffers the same losses as that between linear antennas of opposite polarization. It should be noted that the reflection of circularly polarized TEM waves reverses their sense, so that if circular

polarization is employed and a reflective path is anticipated, some means must be provided for switching the circularity sense of the receive antenna."

Although in the above excerpt the waves are not truly in a rotating state except when viewed in propagation. It shows there is a coupling between similarly polarized waves. The coupling between a left and right circularly polarized wave may enhance when they rotate physically as well as during propagation.

Meissner effect - The reflection of rotationally polarized waves reverses their rotation direction. This may be the reason for the Meissner effect.

See chapter 6 for introduction to circularly polarized electromagnetic wave with a twist theory. Case in point 'exception to the superposition rule' is the key to how the waves cinch up like the threads on a nut and bolt See Chapter 2.6 2.7. There is a possibility that there could be a minute reaction (coupling) between helix waves from two sources, and that a minute force could be transmitted along it. Also see threads and nut and bolt in main theory file located within 'Synod2.exe'.

If you superpose the same type of electromagnetic wave in all directions you will get destructive interference and essentially either no force or electrostatic forces only. That's true, with one exception ! The rotating circularly polarized waves traveling side by side however will not interfere because they rotate as fast as they propagate. Their phases are all in alignment! Visualizing this in a stationary frame of reference, the polarity (wave crest) remains in the same position as the helix wave passes by. Much like a strobe with a 1 to 1 ratio i.e. 1 flash for every 1 rotation. They're in sync. So the wave crest of one wave will fit neatly in the trough of another without interfering. Also from Chapter 4: Only pulsing waves form interference patterns.

Alternative: A magnet could be pulling the aether (Elohim field) in and out of it.

SOME COMMON PHYSICS PROPERTIES HAVE SIMILARITIES WITH MOTION:

Like inertia in which the inertial force does not appear until set in motion. A magnet does not have an electric field until it is moving. Same for static electric charges only just the opposite (does not have a magnetic field until set in motion).

FIELD MOVEMENT: An alternating magnetic field induces an opposite magnetic field in nearby objects (Called Induction).

A magnetic field from a permanent magnet is a DC field, has no movement, thus no electric field accompany's it. A moving electric field such as from an antenna induces a magnetic field in the aether (Elohim field).

4.1 MAGNET THEORY DEMONSTRATION:

Obtain two 1/4 inch turnbuckles (note each end has an opposite thread direction). Using a hacksaw cut the eyes or loops off each end of three of the bolts (Do not damage the threads). Wrap a thin piece of masking tape around the very ends and place them back on the turnbuckle. Using a black pen on one bolt and a red pen for the other. Mark the direction each bolt rotates in order to cinch up. Both arrows should now point in the same direction (while connected the turnbuckle). Do the same for one end of the other turnbuckle making certain the color used matches the threads direction on the first turnbuckle. Assume the clockwise thread (red) is the north

pole and the black counterclockwise thread is south pole. Remove the 3 marked bolts from the turnbuckles for the following demonstrations.

Simple Attraction: (One magnetic wave source and one iron)

Hold the unmarked ends between thumb and forefinger. With your other hand rotate the bolt in the direction of the arrow. Repeat for the other color or opposite pole. Notice they both travel inward or cinch up. This is attraction. The wave knits in between the correctly sized spaces within the iron (The bolt and nut). See wavelength match for further. Note no interference pattern should result from a continues (not pulsing) helix wave.

Is there a problem with Domain Alignment?

Domain Alignment: Iron changes from a simple attractor to a magnetic with two poles. Is it emitting both helix waves clockwise and counterclockwise?

Opposite Poles Attract: (two magnetic wave sources)

Lay the Black Counterclockwise south pole and the red clockwise north pole down side by side on a flat surface, taped ends to the outside. Note their arrows point in the same direction. Engage their threads and note their threads are phased 180 apart. Their flutes engage perfectly even though they are threaded in opposite directions (they lock together). Now rotate both bolts simultaneously in the direction of their arrows while keeping their threads engaged (locked together). Note how the bolts are drawn together (they cinch up). This is opposite poles attract. Both poles have an equal attracting force.

Like Poles: (repulsion)

Because they are in perfect phase they repel each other using the exception to the superposition rule. Because the wave is circularly polarized and rotating in opposite directions when facing each other they bounce off one another. Repulsion of similar sized waves that are in phase. (See also diffraction and interference repulsion). Repulsion of like poles must be weaker than two poles in attraction in order to satisfy the gravity requirement (See gravity).

4.2 GRAVITY'S ATTRACTION ONLY PROBLEM (HYPOTHESIS):

Is there a interference pattern from same poles repulsion (SEE Beach chapter). Gravity wave interference? There is no interference pattern from magnetic waves passing by a knife edge. But particles like electrons interfere. Will pulsing two electro magnets side by side result in a magnetic interference pattern? Only pulsing waves form interference patterns. As compared to continuous helix waves which repel along their entire length.

PROBLEM WITH GRAVITY SAME POLES REPEL.

ALTERNATIVE #1:

Gravity a combination of attraction and repulsion.

Gravity emits a pulsing helix wave **. The helix wave emitted from the proton and neutrons must pass through the electron shells. The resulting wave is chopped up from this passage. If the helix wave is pulsed it may exhibit both attraction and repulsion.

A simple attraction occurs (see simple attraction). Because of the pulsing on/off of this helix wave simple attraction is reduced. Because it pulses the repulsion is also weakened. A diffraction pattern will result from any pulsed wave. (See diffraction below). The net result of both the attraction and the repulsion is a very weak attraction force.

**

The pulsing of this wave can be heard. Under certain conditions the gravity waves from two heavenly bodies (see beach synodic theory) Heterodyne. Standard radio scanners can pick up harmonics of this wave. This could be a beat frequency or higher amplitude harmonics however. See Beach chapter.

GRAVITY ALTERNATIVE #2: (Pulsing simple attraction and repulsion from two wave sources) Pulsing enables the cancellation bands and the passage of some waves between the cancellation bands (interference fringe bright areas).

Option: The proton emits a clockwise helix, the neutron emits a counterclockwise. The gravity wave must pulsate. Then like shining two beams of monochromatic light total cancellation (which is repulsion see superposition) does not occur. Instead like light we have bands of light and dark areas. Of course gravity cannot have areas of total attraction and repulsion like bands. Like monochromatic light from two (two sources) closely tuned lasers the interference bands are moving so rapidly it cannot be detected except by a photo detector and oscilloscope. There is an error in the rules of superposition for monochromatic light from two sources. The interference bands are simply moving (alternating) so fast that they are not visible.

Protons and neutrons emit only a clockwise (option) helix. A combination of simple attraction (see simple attraction above) and repulsion (see repulsion) occurs from this single wave. There is a minute difference between the attraction force and the repulsion force. Favoring the attraction force. Note that two permanent magnets in repulsion have a minute attraction force for the iron within the other same pole. This can readily be seen by bringing two north poles (same Poles) from one weak and one strong magnet together. The stronger magnets field attraction to the iron takes preference over the repulsion forces. There is a $10^* E 38$ difference between the mechanism causing repulsion and attraction. This small difference would then also have to apply to magnetic theory (this can only be tested using copper electromagnets). The magnetic field has no attraction to mass because its wave passes directly through with no interaction, much like light passing through glass. Or a microwave passing through a cup but interacting with the water within. See the new gravity to magnetic ratio value for the $10^* E 38$ paragraph on magnetic to gravity ratio.

HYPOTHESIS:

The Superposition repulsion rule is slightly weaker ($10^* E 38$) than the attraction due to the helix wave thread coupling.

The forces resulting from the coupling of two electromagnetic waves is probably related to their respective sizes. The closer two waves match in size the stronger the coupling force is. This allows a range of forces to occur depending on the difference of the size of the coupling waves.

GRAVITY ALTERNATIVE #3:

(THE PROTON AND NEUTRON EACH MUST EMIT BOTH CCW AND CW WAVES SEE PG. 583 OF PHYSICS SI VERSION)

Both the proton and neutron emit both a clockwise and counterclockwise helix of equal wavelength. This gives them each two poles. Their wavelengths are smaller than that of the electrons. Noting $E = hf$, their attraction

force (the strong force) is greater than the electric repulsion force of the proton, thus the nucleus stays together. Much like sticking two horse shoe magnets together, some of their flux still leaks out resulting in the gravity force. The leakage must pass through the electron cloud. The passage like a shutter opening and closing causes the wave to pulsate. Interference again as in alternative #2 again occurs, further reducing the gravity wave strength.

NOTE: Except for the electrical repulsion between two protons, the proton-proton, proton-neutron, and neutron-neutron forces are the same. Pg 583 Physics SI Version.

DIFFRACTION:

Magnets unlike light have a continuous stream of waves. So only one diffraction fringe appears (or total diffraction repulsion). Light is a pulse waveform the gap between pulses allows more than one fringe to appear. Case in point:

These wave interactions principles can be extended to chemistry. The star like patterns of chemistry have no attraction at a distance.

4.3 MONOPOLES:

The electron shares the same principles except that its single clockwise * helix wave is continuous. Pulsed by the aether (Elohim field) (a sea of electromagnetic helix waves) they emit in all directions while spinning. * either CCW or CW.

4.4 SPINNING GYROS LOSING WEIGHT EXPERIMENTS:

A gravity anomaly or just a coupling effect.

In Physical Review Letters, 63, 2701; 1989, we have a report from two Japanese workers from the Tohoku University who did an experiment with three gyroscopes. They set the gyroscopes spinning, then weighed them. The weight, in theory, should be independent of the rotational speed of the gyro. The authors confirmed that the weight was independent of the gyro's spin if the angular momentum vector of rotation is directed upward or if the rotation viewed from above is anticlockwise. But if the angular momentum vector is directed downward, toward the center of the Earth, the weight of the gyroscope decreased. They witnessed a reduction in weight of up to 10 mg in a system with a total weight of 175 g. The sensitivity of their balance was 0.3 mg. The reduction of weight was seen to increase linearly with rotation speed of the gyros.

An unpublished article from a Russian scientist that found that his unbalanced gyro when rotating at a specific rpm would become lighter or loose a small amount of weight (gravitational pull). Below is the reference.

U.S. Department Of Commerce National Technical Information Service.

"Possibility of Experimental Study of The Properties of Time ,USSR" By: N. A. Kozyrev. Joint Publications Research Service. Arlington, Virginia. May 1968.

THE BENT SPINNING ROD EXPERIMENT ON WEIGHT LOSS:

Vibrating or rotating objects under certain conditions would become very slightly lighter in weight (not a mass change). A simple experiment using a electric hand drill with a bent bolt in the chuck. I clamped the drill in a

vertical position and set it in a cardboard box of lightly scrunched newspapers for vibration isolation. A small amount of other dampening material was also used. Using a expensive electronic parts counting scale I had the following results. The apparatus was allowed to vibrate freely.

Drill RPM 1250 W\ speed control and clockwise counterclockwise directions.

The bolt weighed: .11 lbs. diameter: 5/16 length: 5 1/2 inches. I bent the bolt to just under the proton tipping angle of 11.8 degrees. * I will call this angle the precession angle.

RESULTS:

Counterclockwise rotation 1250 rpm Drill pointing upward:

Weight before, Weight during, Weight after

8.53, 8.54, 8.54 Always increased .01 lbs.

Clockwise rotation 1250 rpm Drill pointing upward.

Weight before, Weight during, Weight after

8.53, 8.53, 8.53

No change was apparent during clockwise rotation.

A larger difference was noted when the drill was pointing downward and it also appeared when the rotation was both directions. I must say the apparatus was rather crude. The scale readings to my surprise remained rock solid except on start up and slow down. The vibration also was at a minimum. I attempted to increase the bend angle of the bolt but was unsuccessful in that my simple clamp arrangement would not hold the increased vibration.

CHAPTER 5. PLANCK'S CONSTANT

Superposition (the exception) must be read before this.

The origin of quantum mechanics lays in the study of radiation emitted by hot bodies and in the photoelectric effect in which light ejects electrons from a surface. The explanation of these phenomena required the introduction of the idea that energy appears only in discrete amounts; It is quantized.

5.1 REFRESHMENT ON BLACKBODY RADIATION: (The tiny oscillators)

All hot bodies emit radiation as heat. As the temperature of an object is raised, it first glows red, then orange-yellow, then white hot. The classical explanation is: The thermal radiation is produced by the accelerations of electrons and the oscillations of molecules.

The spectrum of radiation emitted by a hot furnace depends on the temperature, not on the material in the wall. Planck was impressed by the fact that the spectrum of cavity radiation was the same for all materials. One thing lead to another and Planck found that if he divided the total energy of the tiny oscillators into energy "elements" of size e. He then could formulate a radiation equation and found it revealed the discrete energy units $e = hf$.

Where $h = 6.626 \times 10^{-34}$ Joule seconds. This is known as Planck's constant. Although he did not realize what he had done. It was not until Einstein came along and proved that Planck's radiation law could be derived only if the energy of each individual oscillator is quantized in steps of hf .

PHOTOELECTRIC EFFECT

Einstein's quantum hypothesis: The energy of each individual oscillator can take on only value that are integer multiples of hf . In the n th "level," the energy is $E_n = nhf$ where $n = 0, 1, 2, 3, \dots$ Einstein's hypothesis implies that an oscillator can emit or absorb radiation only in multiples of hf . The spacing between the energy levels depends on the frequency.

5.2 THE ONE CYCLE VIEWPOINT:

You might find this on the origin of Planck's constant interesting. Blackbody radiation: What causes it to be divided into this very small unit? Using this model of helixes we can clearly see what Planck's constant origin is. Never before described in detail. This is the source for the quantum. Neatly formed helix waves. Side by side they interlock.

$$1.509 \times 10^{33} \text{ cycle/sec} = 1 \text{ joule}$$

Ref: Quantum Chemistry Donald A. McQuarrie (Table inside front cover)

Taking the inverse of the above we find the energy of 1 cycle per second.

$$1 / 1.509 \times 10^{33} = 1 \text{ Hz (1 cycle)} = 6.626 \times 10^{-34} \text{ Joule-seconds}$$

This is Planck's constant. Could this be pure coincidence? I don't believe so. What I would like to point out is that this is also the "Energy of one Cycle of any sized wave." So Planck's constant is the energy of 1 cycle of any sized wave. Now the question "Why does Planck's constant boil down to 1 wave of any size?" Planck explained them as tiny little oscillators. Why did they end up this 1 cycle of any wavelength size?

I hypothesize this is the attraction/breaking energy of a single wave! The force responsible to hold two rotating helix waves together.

Note that the above 1 Hz = 1 cycle = 1 cycle of any size wave bonding energy.

Blackbody radiation: What causes it to be divided into this very small unit? Well, it is the binding energy of two combined waves and/or the energy required to break the continuity of one electromagnetic helix wave. The blackbody radiation curve has already determined something is going on to produce these minute energy divisions. I am just looking at it from the 1 cycle point of view. Why is Planck's constant the energy of 1 cycle? (See theory on mating of helix waves).

Example: (you can imagine this spring is rotating as well). Stretch out a long thin spring much like a slinky (the helix) pulling it taut. Now imagine there are weak links distributed along its length (sort of like tiny fuses) say every other wavelength. Now apply just a little more linear tension on the spring and the springs break into whole number segments at the weakest link. Giving it the whole number interval Planck's constant. After the snap each segment emits a loud ringing sound of energy. The segments vibrate with a frequency related to the number of segments long. This sound energy frequency can be calculated from the segments length and the material characteristics of the spring. (Note: A single wavelength probably can not ring.) Even though the spring helix was a circularly polarized wave, the ringing sound now becomes a sine wave. The sine wave cannot carry a force along its path only the rotating helix wave with its continuous strand has this attribute. Torsional forces should be considered as well.

This is the kicker: The sine wave is the electromagnetic wave. photon! Its wave form cannot carry a pulling force. Planck's constant is the fuse rating! The strength of a continuous (unbroken) electromagnetic helix wave. The tiny springs resonate emitting photons of that frequency. Snapping apart breaking then resonating when doing so.

As we see Planks constant is the energy bonding (or intertwining) of two helix waves to another. * see note on superposition below.

**CAN QUANTUM JUMPING SIMPLY BE THE HETERODYNING OF ELECTROMAGNETIC WAVES WITHIN THE ATOM?
SEE SEPARATE PDF FILE ON Heterodyning of Atomic Spectra.**

IS IT POSSIBLE THE QUANTUM JUMP IS NOTHING MORE THAN HETERODYNING OF WAVES?
Analysis from simple reverse derivation of the addition and subtraction of waves when applied to the atomic spectra reveals some startling results.

In physics and chemistry **atomic electron(ic) transition** (could be simply called an **atomic transition**, a **quantum jump**, or **quantum leap**) is a change of an electron from one quantum state to another within an atom (or artificial atom). It appears to be discontinuous (observed for example in fluorescence signal of another transition as burst noise); the electron "jumps" from one energy level to another very quickly (transition time often in a few ns or less). Quantum leaps cause the emission (or absorption) of electromagnetic radiation, including that of light, which occurs in the form of quantized units called photons.

Theory: Fundamental wavelengths found within the atom when heated produce spectra through the process of heterodyning of waves.

If the theory holds true then there must be more results from atomic spectra than a similar random generated set.
Causality

Neo view of quantum mechanics provides alternative explanation for the quantum jump. Placing these simple basic concepts together fills a gap in understanding quantum level physics.

Almost the entire carbon spectra shows up when harmonics (whole# multiples) are added to the equations. The fact that not all can be reproduced reveals some are missing or bound up.

THEORY: The waves within the atom are strings. Pulling a violin string to the side then releasing it as in plucking vibrates the string. The vibration emits a sound in the air. Spectra are similar during heating the atom expands and contracts continuously. This constant expansion and contraction releases a wave or photon on the ether field of a specific wavelength. Another force pulls and releases the strings when elements chemically combine. The strings are like the fingers on your hand. Couple your hands by the finger tips, and pull them apart. The fingers release one by one depending on how long and strong each finger is. They snap apart and release a sound. During chemical combining the two elements strings attach altering each elements configuration. Breaking and reconnecting the strings in a new configuration produces heat and light photons. Razing the temperature to initiate bonding is similar to opening the fingers up so that they can attach. Similar to the above example except with a large hand and a smaller child's hand.

This document provides proof quantum mechanics is simply the result of heterodyning of electromagnetic waves.

Considered here will only be the atomic spectra of the carbon atom levels I-IV. Other elements show similar results.

Quantum jumps are the heterodyning of em waves formed within the atom which results in the emission of photons of the wavelength by way of adding and subtracting of the original waves. Freq new = $F_1 + - F_2$
Freq new = $F_1 + - F_2$: Hypothesis: This common equation found in sound, radio, and electronics is the same as the quantum jump.

If the above statement is true then any comparison to similar but random sets of numbers should result in fewer matches when transformed back to the original form.

CHAPTER 6.

6.1 SYNODIC WAVE THEORY:

* internal superposition

The flutes or wave crests (so to speak) of one helix wave can reside neatly within the voids of another there is room. Even though their can be only one electric field in single place in space. The crest on one wave can mate with the trough of the other wave. So the wave crests of one circularly polarized wave (helix) can reside within another. Imagine the crest (ribs) of this wave then insert another wave directly within it only with a 180 degrees difference. Now both waves can exist nearly in the same plane yet not interfere with another. Even two coil helixes of opposite winding (counter clockwise and CW) mate well. The electric fields can mate when the phases are 180 degrees apart. One within another. This interlocking resolves part of the transference of force. Next can a electromagnetic wave transfer a linear force? The answer to this was covered in chapter 2 on the case in point 'the exception to superposition' along with a reference regarding an experiment employing a trolley. This is the key along with another attribute found when producing circularly polarized waves.

6.2 WAVE COMBINING REQUIREMENTS:

You might ask. Basically any circularly polarized (helix) wave can be expressed as the superposition of linearly polarized plane waves. Take two linearly polarized waves with perpendicular polarization and a quarter phase out of step and superimpose them. You will get circularly polarized light. It's either moving cw or ccw depending on the direction of the phase difference. But they don't have the properties I've presently ascribed to them. This is true, but they are rotating as fast as they propagate resulting in a standing wave when viewed from a stationary frame of reference (same frame as the emitter). This light is circularly polarized but not rotating. Also there must be a wavelength match (See below).

So we have these three combining requirements:

1. Both must be circularly polarized wave a helix.
2. They must be of the same wavelength (This is the source for the quantum).
3. Must have rotation. (standing waves will not cinch up or attract.)

Note: Man made circularly polarized waves do not rotate but are emitted as standing waves.

4. Also must be considered is the traveling phase velocity (due to rotation). If the phase velocity between combining waves exceeds their attraction force no mating (coupling) can occur. An example of this might be the firing a bullet at a piece of paper. Plenty of energy in the bullet, but it passes right through without a force transfer (a bullet can't push a piece of paper, it is traveling to fast).

Further (mathematics):

Find a springs vibration frequency based upon its weight, length, size and modulus of elasticity. Solving for this may result in a electromagnetic wave wave helix modulus of elasticity or space's tensile force.?

1. Use Planck's constant as the freq. and energy constants then solve for x?
2. Use mass to energy conversion $E = m c^2$.

The fact that no two electric fields can occupy the same position in space (see superposition) brings us to the conclusion that their must be a type of repulsion in effect between the waves. The repulsion prevents them from occupying the same position. The repulsion forces cause two mating waves to lock in place trapped within each

other yet maintaining their distance apart within the empty space within each helix wave. This repulsion force can be seen occurring during the production of circularly polarized waves.

Wave combining:

This theory agrees with the quantum seen during the photo electric effect. This agrees with the photo electric effect. Wave combining and Planck's constant. The photoelectric effect becomes apparent because only waves of the same size will combine. Thus when photons (waves) of the wrong size (a non match) wave combining cannot occur. Here the light intensity has no effect. Ref: Wave theory pg. 504 Classical Theory waves absorb energy.

6.3 OTHER CONSIDERATIONS:

Note that two slightly different sized waves will mate along a linear path until the compression expansion force exceeds the mating attraction force. (Use two rulers side by side with slightly different increments to visualize this.) When these two waves break apart they emit a electromagnetic wave wave that is a whole number relationship to the energy of a single Hertz. Note that from above a single Hertz is equal to Planck's constant. They oscillate (ring) a distance equal only to Planck's constant regardless of the size of the wave. Also the breaking of a single continuous helix wave would result in the energy of 1 Hertz or Plank's constant.

The Principle of Superposition: (see pg. 440 University Physics) Electrostatic forces are not affected by the presence of other nearby charges. Why? Particles radiate a electromagnetic helix as they spin every which way. This is why they can attract from all directions at the same time. Energized by the pulsing of the gravity net they require no energy of their own.

* any references to helix wave is interchangeable with circularly polarized waves. They are one in the same.

MAXWELL'S POINT HF. ?? (Unfinished)

6.4 CONTINUOUS SPECTRUM:

What causes the continuous spectrum when heating solid objects? The larger waves can stretch further (they have less energy) so they stretch further to accommodate a fit with a smaller wave. So when they break or snap back from the misfit, temperature or entropy flows further to the larger wavelengths. Thus the flow from high to low energy states. Exam: The larger weaker spring (less energy) stretches more so to conform to the smaller spring. Although both have stretched. When the bond breaks the larger spring snaps toward its original wavelength Its original wavelength can accommodate more matches than a smaller wave A larger spring can accommodate more wave stretching matches than a smaller spring and so on and so on. So the preferred way for energy to travel is generally from the smaller wavelengths to the larger. Thus the direction of energy travel from high to low.

Hypothesis:

The atomic spectral lines are the result in subtracting of two waves in the heterodyning wave equation. Stretching the waves during the heterodyning process beyond their limits allows them to break apart and snapping back to their original size thus emitting the electromagnetic photon. The Quantum jump is this process. A photon is produced when the two spring like waves snap apart. They snap apart with a resonance or energy related to their diameters (wavelength).

NOTES:

Two waves can combine only when they have near equal size and shape. A slight amount of stretching of the two waves occurs.

The source for all levels is based upon the many layers of waves of the proton neutron and electron. Although the wavelength of the electron is based upon its velocity.

6.5 THE BUILDING:

Question:

Often photon's reveals a jump beyond the d% heterodyning maximum of two combining waves, how is this possible? Answer: The heterodyned wavelengths may have been joined by multiple stretching of several waves resulting in stretching beyond the d%. The waves separate and break apart shrinking back to one of the built up levels. OR The photon is the result of multiple heterodyning levels. The photon "itself heterodynes" in a chain reaction of many heterodyned levels. This allows them to appear to have jumped the complete distance.

Also Planck's constant gives us the size difference (or energy difference) between two waves until they will no longer interact or bond.

Two waves will deform slightly allowing a better bond. The smaller wave will expand slightly while the larger wave will contract, they mate! This is related to their attraction forces keeping them mated and the forces maintaining their original size or again Planck's constant. Its all related to the size of the wave.

EVIDENCE OF A WAVE TO WAVE ATTRACTION FORCE.

Ring Laser Gyroscope: Lock-in characteristic is evidence that there is a minute force between like wavelengths.

Physically, an RLG is composed of segments of transmission paths configured as either a square or a triangle and connected with mirrors. One of the mirrors will be partially silvered, allowing light through to the detectors. A laser is launched into the transmission path in both directions, establishing a standing wave resonant with the length of the path. As the apparatus rotates, light in one branch travels a different distance than the other branch, changing its phase and resonant frequency with respect to the light travelling in the other direction, resulting in the interference pattern beating at the detector. The angular position is measured by counting the interference fringes.

RLGs, while more accurate than mechanical gyros, suffer from an effect known as "lock-in". When the ring laser is rotating very slowly, the frequencies of the counter-rotating lasers become very close to each other. At this low rotation, the nulls in the standing wave tend to "get stuck" on the mirrors, locking the frequency of each beam to the same value, and the interference fringes no longer move relative to the detector, which causes the device to no longer track angular position.

This effect is compensated by adding dithering. The entire apparatus is twisted and untwisted about its axis at a rate convenient to the mechanical resonance of the system, thus ensuring that the angular velocity of the system is usually far from the lock-in threshold. Typical rates are 400Hz, with a peak dither velocity of 1 arc-second per second.

This also explains why

1. Vibration can cause a slight weight loss. – probably best occurs at the mechanical resonance of the system
2. Explains the EPR experiment spooky or mysterious effects.

CHAPTER 7.

BELOW IS A COLLECTION OF NOTES. TIME CONSTRAINTS PREVENTED THEIR ORGANIZATION.

Gravity is the result of proton and or neutron rotation. Chemistry is the result of heterodyning (combining) of both proton/neutron, electron, and molecular rotation.

NOTE: The particle need not emit an electromagnetic wave. From its internal makeup and rotation it acts like a nut on a bolt. Cinching up on an electromagnetic helix wave thus initiating the forces. Its structure made from waves when set in rotation emulates an internal thread like design. This model relies on previous theorized wave like internal structure or makeup of the basic particles. See reference on Vector Particle Physics.

Must support the following attributes:

Charges + (photon interaction exchange)

Magnets North/South (must have both poles yet support repulsion/attraction).

Gravity 1 direction no repel

Particles 1 pole w\attract and repel

Proton has mass as well as charge.

We must be careful, some high energy particles from accelerators are possibly ethereal movements.

Quantum Mechanics

Duality: Particles are waves that appear to have a hard shell due to their extremely fast rotation.

Inertial and centrifugal forces

Electricity: Pure direct current actually has a very high frequency helical wave which it travels upon. All interactions are carried upon this unmeasurable atomic frequency.

Photon: The photon is a electromagnetic wave.

Molar relationships

Wave heterodyning

Dissimilar metals producing a voltage temp difference.

ELECTRON AND MAGNETIC FIELDS

All electrons are emitting waves in a clockwise direction like a spiral galaxy floating in a sea (the aether) in which it absorbs its energy from. Particles rotating in same directions will repel and opposite directions will attract much like the threads of a nut and bolt. These particles are aligned in 1 direction by the pulsing of the sea of aether. When affected by an external magnetic field they align then snap back when removed. Spun like the old tops with a handle top and helix threaded rod down the center. Pressing down on the handle rotates it. Pulsing aether pressure on the sides of the electron rotates it. Also snap roll.

The electron absorbing and then emitting from one end causes it to spin like a round balloon when let go. When it approaches another electron they both emitting waves force them self away. When approached by a counter rotating particle the helixes counter rotation draws them together.

The electron might be described as: A fine dot. A one or two wavelength long helix wave which oscillate back and forth, much like a coil spring rings when tapped with a hard object. Combining the ringing with the helix rotation and the spinning of its entire system.

Electromagnetic emissions other than light from sun and gravitational bodes form a gravity net which may be interpreted as the aether.

Particles are a cross hatched pattern of waves much like those sometimes seen on an oscilloscope. Caused of itself and by itself, the electron is held within limits by the aether of which it helps create. It cannot hold still continually vibrating and bouncing within the ethereal constraints it helps to create. Particles are constrained into form by the principles of wave collision and bouncing that was covered in chapter 2 on superposition.

WAVE THEORY.

See gravity and magnetic wave notes of attraction and attraction/repulsion occurs because of the rotation direction of the wave (mono poles).

MAGNETISM

Magnetism occurs when all the helixes are aligned in a majority direction.

(DOUBLE ROTATION FROM MOLECULE ROTATION WITHIN A ROTATION)
IS NECESSARY TO EXPLAIN ALL THE POSSIBILITIES)

Elements emit continuous waves from each atom that spiral in the same direction as they are emitted. Each element both absorb and emit at least 1 gravitational wavelength. All elements share their gravitational wavelengths with all other atoms in their vicinity. All gravitational wavelengths harmonic or not are also shared only if they have the same amplitude (wave height). If the emission wave exceeds the tolerance necessary to provide attraction.

MAGNET THEORY

A coil of copper wire will produce a strong field. Seems to relate a coil or helix to theory. Like the electromagnet: A helix in one direction produces a N pole while a helix in the opposite direction produces the S pole.

PROBLEM: the opposite pole, how does it repel?

ans. A counter rotational force must be occurring else the magnet will spin

PROBLEM: What prevents a counter rotation balanced magnet from rotating when one pole is attracted and the other is not? ans. Because there are many separate helices.

Electromagnetic waves attract each other. -

A particle may or may not emit an Electromagnetic rotating helix wave. instead it may have an internal electromagnetic wave which when spun rapidly acts like a nut on a bolt. The helices cannot combine or add up into one big helix, they remain individual due to the maximum allowed wave size is related to the propagation velocity. For this reason no external torque appears on a stationary magnet.

ZERO POINT'S energy source is the aether field. Here the electron is short pulsed into a sudden acceleration, breaking its normal connection to the aether inertial field. A low or inertial-less velocity change. When it is brought back into our time frame it reconnects into the aether field dumping its gained energy of the inertial-less velocity change. It is acquiring energy from the aether field.

Bearden high voltage gravity canceling: this is from breaking the connection with the ethereal field or inertial field- see ship in the soup.

PROOFS AND QUESTIONS:

1. A partial proof of wave rotation shows up in electricity left hand rule!
2. The same direction rotating forces of like poles oppose directions when 1 magnet is turned around to face the other, thus they repel !

If the magnetic spiral is like a turnbuckle (each pole rotates a difference direction) then repulsion will be a slightly weaker force because the threads don't fit as well. Winding a helix in both directions shows that the treads fit very well within one another. Both poles would still have equal force.

2. Why do capacitor plates form opposing poles? (also relates to breaking magnets forms two more poles)

ANSWER:

The rotation of one pole must be counteracted by a reverse rotation from the other pole. Else the magnet would rotate on its own? Or the capacitor plates would feel a torque?

ELECTRON HANDEDNESS:

Radiation pressure switch. The electron is oriented by the aether pulses which it absorbs from its sides. Later when the electron is subjected to a magnetic field it does a snap roll and reorients its poles to the magnetic field and either absorbs the magnetic field -or- Begins to precess due to the still present aether which it requires to maintain its existence. If an electron is composed of a single wavelength then side by side located electrons should not repel when under a strong magnetic field.

THE PRECESSION:

Like pulling a thread from the end of a bobbin would cause it to oscillate from side to side. Forced into alignment by the external field the spiraling out put holds the electron in a sideways position. Emitting from one end like a thread pulled from a bobbin yet held at an angle by the matching alignments of the emitted wave and the magnetic fields helix.

The electrons magnetic pulling force moment and its spinning direction are slightly different axis. Pulled sideways by the spiraling output of its waves like pulling thread off a bobbin from its end causing precession.

CHIRALITY:

Since it is emitting a helix from one direction and being in a magnetic helix field. gives it 1 direction of alignment or its handedness. i.e. the helices align up.

COIL WINDING ANALYSIS:

Knowing the helix (the coil winding) direction the left hand rule and the direction of current flow + to gives you the field helix direction.

Answer: : North pole spirals clockwise when looking toward its end. Also both ends spiral in the same direction (see bolt) so. Where is the torque?

TORQUE: Why is there no counter torque from a magnet?

Answer: The aether permeates in and around and through everything. When magnetizing the iron the electrons align. Still being pumped by absorption of the permeating aether they emit their waves spiraling outward. The magnetic Electromagnetic field forced by the aligned electrons emissions rotates 1 direction (the left hand rule). The stability of the aether generated by gravitational bodes provides the counter torque. An equal and opposite force.

ELECTRON particle DESIGN or Wave Construction.

Because the electron's circumference rotational velocity is greater than the interiors they appear plated. Giving it a particle like structure. See also Vector Particle Physics by Tom Lockyer.

THEORY:

It might be helpful in this analysis to consider the proton and neutron to be gravity producing particles.

The host of particles attributes might be explained by variations of the bolts one end precession and both ends precessing (the turnbuckle) theories along with the flipping over of each type and allowing for one type of gyro to reside within another.

How many variations would this allow?

1. Bolt 2. Turnbuckle 3. Bolt + Bolt 4. Bolt + Turnbuckle.

5. Turnbuckle + Turnbuckle.

6.. All of the above turned over or reversed rotation direction or

7.. Combinations of rotation directions such as:

Bolt clockwise + Bolt counterclockwise (one or more gyro within another)

8.. Variations of wavelengths.

9.. Inability to flip i.e. gravity particle?

10.. Rotational velocity differences might allow for repulsion or attraction much like two threads of similar direction but rotating at different rates would cinch up or separate.

10B. A rotational velocity difference in precessing gyros would produce an opposing pole.

This would not alter the attract repulsion because there is infinite slip.

Attractions of helix waves should be carried into chemistry. Chemistry having a myriad of wavelengths which only some would be size compatible. A slight difference of wavelengths between two chemicals would diminish their bonding ability (energy) proportionally.

ANOTHER TYPE OF BONDING MIGHT BE BASED UPON: Flutes and Strings.

A question might arise. Why don't chemicals have a physical attraction for another like a magnet? Or why must they be so close to be pulled together? Will a ultra thin barrier prevent reactions by repelling absorbing or altering the separated wavelengths of the reactive chemicals? Will one type of barrier work while another will not? *

Ans. Chemicals that will react do not have a physical attraction at a distance either because the aether will not support their electromagnetic wavelength emission (there is not a whole number relationship) or the waves are directly absorbed by the aether and/or the exact angle relationship (see crystals) of electromagnetic helix emissions no longer matches when at a distance.

Reference: The "double helix" of the DNA chromosome.

Gravity is a helix electromagnetic wave wave emitted from rotating gravity particles or molecules that appear like precessing gyros. Included also is the magnetic field but in a different wavelength.

Electron Polarity: Turnbuckle Theory

A free particle like a gyro should precess on both ends. If so the precession on the top end will scribe out a left hand thread while the precession on the bottom will scribe out a right hand thread. Similar to the threads on a turnbuckle. The thread here is used as an example to describe an electromagnetic wave emission emitting from a spiraling precessing particle.

Simple experiment: ****

Bring one pole of a magnet up close to a television screen. Notice the slight rotation of the screen. Now reverse the pole and notice rotation of the screen is the opposite. Does this support the turnbuckle theory.

POSSIBLE ERROR: See Astronomy made Simple: Flipping the electron over produces the 21 cm radio wave. (also the drawing) The antiparticle may have opposite spin direction not just flipped over?

Best demonstrated with the left and right hand threads of a turnbuckle. The threads represent the rotating helix electromagnetic wave wave emitting from top and bottom of the precessing particle. Connecting both threads of the turnbuckle end to end provides a proper visual analysis. Assume the particle is the connection point. Precess the particle and note the formation of the electromagnetic wave emissions (the threads). Only 1 direction will be correct to form the thread directions. Spinning the unit the correct direction will draw up the threads. Reversing the spin will push down the threads.

Why does a non magnetized iron have no magnetic field? Because the gyros are facing all directions and will not align as their emissions pull on one another and not to the external. While in magnetized iron the particles gyros are set in alignment allowing the emissions to point in one direction thus adding in strength.

Simple Experiment:

Place a current carrying wire in a copper sulfate solution. Using a lens for magnification, the solution can be seen circling around the wire.

What forms the opposing pole and what causes attraction and repulsion. This is easily explained using the turnbuckle theory.

TWO LIKE PARTICLES WILL NOT REPEL

That may be ok since electrons in an accelerator will not repel?

Gravity uni-polarity: Bolt Theory

The gravity particle also like a gyro may be off balanced thus allowing only one end to precess thus permitting only one end to emit the helix electromagnetic wave. This plus an accompanying inability to flip over provides an answer to the mono pole. Also, lacking a force strong enough to flip it over. Simply turning an object over the gravity particle gyros remain aligned, it self rights itself.

Why don't gravity and magnetism interact? Due to the wavelength difference of the precession of the particles. Similar to two different thread sizes inability to cinch up.

The proton has 2 gyros 1 inside the other. One is a gravity wavelength the other is a positive polarity gyro. The protons charge is free to rotate within it. They are independent of another. Force required to cause precession is probably due to the force required to provide energy to the particle or the pull from its electromagnetic wave emission.

Probably error: Prefer turnbuckle analysis.

Magnetic particles like the electron all spin precess in the same direction. (say left hand thread) and can be flipped over creating their antiparticle. Flipped over it appears the particle is turning in the opposite direction yet it still has the left hand thread direction. Placing two of these emitting Appears the antiparticle spins precesses in the opposite direction.

APPARENT AETHER OR GRAVITY NET

Definition:

All elements emitting one or more electromagnetic waves of atomic wavelengths fills space.

Concentrated emissions from large planetary bodies enable gravitational forces as well as affecting several particle-wave types as they pass through the field. Absorption and emission can be enabled by particle passage. This field permeates everything and possibly is in phase with all particles of a particular type (all matter).

Having the attribute of a rotating helix electromagnetic wave enables it to permeate.

Einstein's warping of space is supported here by the pulling and warping of the gravity net. The gravity net is warped anywhere a large gravitational body is emitting gravity waves into the gravity net.

Also Gravitational bodies are a constant source of gravity electromagnetic emissions so propagation velocity is not of importance to maintaining orbital mechanics.

OTHER CONSIDERATIONS:

Masses rotating helix electromagnetic wave emission extends into eternity. If somehow its emission could be separated from the aether it could be acted upon from a distance. May relate to double slit duality experiments.

CHEMISTRY: (Quantum Mechanics)

Having reviewed the above rotating helix electromagnetic wave a similar analysis may be applied to chemistry.

PRECEPT #1:

The amplitude of all electromagnetic waves is equal to their wavelength.

LAW #1: (Quantum Mechanics)

TWO OR MORE ROTATING HELIX WAVES WILL EXHIBIT FORCES WHEN THEY ARE NEAR EQUAL AMPLITUDE AND SHAPE.

(Similar to, only threads of similar sized bolts will cinch up).

Matching lobes or star like electromagnetic emissions can form configurations.

Chemistry is the same, it requires a matching wavelengths in both elements in order for the reaction to occur. The further the wavelengths are apart the more changing in size (quantum jump distance) or voltage. When there is a difference in voltage there is a jump. Waves that are too far different in wavelengths cannot combine but may deform slightly arising in a partial attraction force. Two helix waves of different size is like trying to cinch up a 1/8 inch bolt onto a 2 inch nut, the threads simply don't match and no energy transfer can occur. The energy required to separate compounds of partial attraction is much less. It is said they have a weak bond.

1. The more closely matched rotating helix wavelengths of separate elements or compounds will have a greater attraction than the weaker less matched wavelengths breaking apart original bonds and forming the new tighter tolerance bonds.

2. REMOVED

3. A variable expansion slinky like effect produces weak bonds. (see Synod.txt)

4. Further weaker and closer bonds of a different type might be formed by the combining of a pulsing type wave much like found in the musical instrument the flute.
5. Absorption emission.

Compounds:

1. Wavelengths must be within tolerance to combine.
2. Energy release can occur when the different elements combining cause one or more other atomic levels to separate in the element due to the difference between waves holding them in bondage is greater than the tolerance between the combining elements wavelengths. Thus the stronger pulling of the more closely matched rotating helix wavelengths presides. Multiple stepping or jumping through near matches may be supported much like the game of checkers. This would result in matches that would not normally be supports. Compounds which share two or more closely matched wavelengths can jump between two different states depending on the temperature and/or pressure, etc. An increase of temperature may allow a better wavelength match between a previously less match combination. Combining of the two separate elements causes a breakdown, or quantum jump, or collapsing in one or more of the elements levels with a corresponding release of energy.
another def: Two levels of both elements are attracted strongly more so than other levels, when they interact it changes the wave configuration of whole dropping some waves that can no longer be supported thus liberating energy in the form of heat and light.

Heating does the opposite. Adding energy changes the wavelengths enough to allow them to fit better thus reducing the reaction time or allowing reactions by the combining of wavelengths. Heating causes the expansion of some wavelengths more so than others. Pulling and stretching of waves until a bond can occur. Seeking a minimum much like soap bubble configurations seeks the minimum volume. Also altering line spectra.

The Band:

Increasing the wavelength of one level can allow it to more closely match another element's wavelength level. When two levels combine by heterodyning, stretching of previously partially attracted levels can occur. This stretching of levels may open up further waves which previously could not heterodyne due to their mismatch. Further stretching again results in other heterodyning producing both stronger or weaker bond levels.

The Catalyst:

In chemistry: If two rotating helix waves are similar size but the difference is too great to produce a chemical reaction. Then a catalyst with a bridge between the two wavelengths go between allowing the waves to stretch further to cause a reaction. The catalyst provides the go between for waves that do not quite match. Introducing the catalyst stretches some wavelengths just enough to allow a match for heterodyning of waves that previously were beyond the tolerance match of two rotating helix waves to cinch up together. The opposite is also true: By stretching a wavelength the opposite direction thus avoiding a helix thread-like match. The catalyst can stop the helix matching of wavelengths which are undesirable, denying a configuration which would occur otherwise.

Larger wavelengths have a larger band width to heterodyne. For example if heterodyning between two waves can occur when two waves are within X% size tolerance. The larger waves have a greater band width to heterodyne with. This reveals the reason why energy tends to end up as heat.

IMPORTANT: (Hypothesis)

"There is no way for them to transmit". Gravity's helical wavelengths travel great distances, chemistry on the other hand, only combines (attracts) when in contact, Why? Elements combine by whole number weight proportions. This relates it to the gravity particle and the "Axe". Could angles of electromagnetic wave emissions be involved? Molecular angles. Also: Gravity wavelengths may provide the carrier (aether * See Vortex file) for light. Chemistry wavelengths do not match the aether wavelength so they cannot travel on the aether. This is the reason why they combine only when close. The combination of the two: (see configurations also) Molecular wave emission angles must match between two combining elements, and the chemistry's helix and aether wavelength mismatch.

The PITH BALL must be considered with the above. The pith ball or charge has no magnetic component until it has a velocity. The pith ball may attract to a magnet when it spins. Millikan's oil drop.

CONFIGURATIONS:

The STAR pattern:

The molecule both emits and absorbs on/off as it spins. Since the star emits radially they can only attract when very close together. The patterns match one another for chemistry.

From these principles all elements and their compounds can be derived, possibly from the basic particle wavelengths as they heterodyne again and again.

SOLUTIONS:

Solutions are also mild attractions between waves of not so close matching of sizes. While non solutions have no matching of waves or are guarded by a various mechanisms.

Such as 1. external shield. 2.

REFERENCE: The sugar molecule that the body will absorb only in one direction. The A chair form of sugar molecule will only absorb (the right hand form).

QUANTUM

SUBJECT: Quantum Jumps. Synodic beach analysis of quantum.

What is the cause of quantum jumps?

Ans. The combining and breaking apart of 2 separate slightly different sized rotational waves. Planks constant relates to this .

>>>>> (see Synod.txt) (important note: there are two types of formations) Looking at the beach where the synodic grooves form and the gaps between them. The gaps are where the two waves break apart being they are of slightly different sizes. When the waves break apart they snap back to their normal dimensions like a spring then recombine further along when they again match up. This may be considered a quantum jump. When this gap distance is measured a RF wave may show up that equals it. This RF wave is a photon, the same photon that is emitted or absorbed during standard quantum jumps.

Once the springs have reached a point of alignment a small attraction thus stretching to maintain their phase occurs. When the two springs energy difference becomes too great they snap apart only to align and recombine again further along. The springs match for a while then break apart and ring producing a photon. Further along they again match up and repeat. Each interaction produces its own photon.

Example below:

Like holding two bolts (or rulers) of slightly different threaded count per inch side by side. The threads (or marks) align for a short distance then separate and realign over and over again.

tpi = threads per inch.

||||||||| 4 tpi
||||||||||| 3 tpi
^ ^ ^ ^

As can be seen every 3.5 waves the two match up. The wave stretching cannot be shown due to limitations of the keyboard (ascii).

PLANK'S CONSTANT:

Planks constant is the attraction bonding energy between two similar sized waves. Planks constant should directly relate to the energy of two waves ability to stretch then break apart (the gap).

SEE below

THE HETERODYNE

Take two springs where the coils attract each other like two magnets. That is, each coil attracts the next coil with a force that is the inverse square of its distance. $1 / (d^2)$

One spring however has a slightly shorter wavelength than the other. Since one spring is slightly smaller than the other it will fit within the other spring. That's where the attraction takes place. Each spring prefers to maintain its shape (its original wavelength) but also is attracted to one another, thus they both deform slightly along their lengths (wavelength of one pulls outward as the wavelength of the other is pulled inward by the attraction force). This stretches both springs along their length until the force keeping their individual coils wavelength apart exceeds the attraction forces keeping them together. At this time the repulsion force which maintains the spring wavelength exceeds the attraction force and the two springs separate. If the springs are quite long they will form many sections where they hold together in attraction and lengths where they have separated.

It might be helpful to hold two threaded bolts side by side that have slightly different threads per inch (pitch). As one can see the threads match up every so often. Now imagine that these threads are springs with magnetic properties that can stretch.

Question:

How long of a distance along their length will the springs attract before the counter force that maintains their separate wavelength pulls them apart? At what distance (gap) will their lengths again attract.

1. The height of each spring is equal to its wavelength.
2. The strength of the force that maintains the wavelength of each spring is the same as the attraction force that pulls them together.

Hint:

The greater the difference of wavelength between the two springs the shorter the attracted area and the longer the gap. Note the springs might be represented by two rows of dots. Then one can see that a varying angle separates the two dots.

Electromagnetic waves all travel upon a higher frequency (wavelength) carrier wave. From this analysis it might be possible to perform chemistry by employing specific vibrations in molecular structures. The making or breaking of bonds with vibrations. These would have to be rotational vibrations to be most effective.

VARIOUS NOTES:

$$c = 2.997925 \text{ E+8 m/sec} \quad h = 6.62618 \text{ E34 J*sec} \quad \text{Wavelength} = c/f$$

$$1.509 \text{ E+33 Hertz} = 1 \text{ joule} \quad \text{Reference: Quantum Chemistry Donald A. McQuarrie}$$

Taking the inverse of the above we find the energy of 1 cycle per second.

$$1 / 1.509 \text{ E+33} = 1 \text{ Hz} = 6.626 \text{ E34}$$

>>>> NOTE: 1 Hz = 6.626 E34 or Planck's constant <<<<<

Planks constant:

$$E = h * f : h = E / f \quad E=\text{energy or wavelength}.$$

What is Energies conversion to wavelength ??

$$E = \text{wavelength} \text{ so } h = \text{Wave1 Wave2} / f \text{ substitution}$$

or

energy of wave1 energy of wave2

THE BELOW MUST BE SATISFIED AND EXPLAINED PROPERLY:

A Quantum jump occurs any time 2 springs are stretched and broken apart. An electromagnetic wave wave is emitted when the springs snap back to their original dimensions (they resonate by separating and recombining continually). Spring size (wavelength) dictates how far two springs can expand or compress before separating. Doppler shifted waves from rotating movements of molecules can combine like beat frequencies. They also match for a distance then separate (see Synod.txt).

Adding heat or energy expands the springs allowing for better or worse mating of two springs. Cooling reduces the springs wavelength. QUESTION. is that backwards.

QUESTION:

1. What is cooling as spring defined?

Cooling contracts the springs reducing the number of quantum jumps possible. A larger spring can have more matches.

2. Noting that a red hot iron wire loose's its magnetic field, can it still produce electricity by cutting through a magnetic field?

3. How can a red hot iron wire still transmit electricity yet loose its magnetic ability?

Ans: The gyros will not hold their orientation.

4. Super conducting, why?

Ans:? gyros can be aligned (all 100%). no springs responsible for conduction are out of alignment.

5. Resistance is what?

Ans: A slight mismatch in the electric wave wavelength's results in heat. The electron has its wavelength and it's energy is transmitted on another wavelength. The closer these match the less resistance.

6. What produces electricity?

Why does passing a wire through a magnetic field by cutting through it produce a current.

Ans: The magnetic wavelength (size of helix) is just beyond a match for the electric wavelength of the electron.

Moving either through the aether (Elohim field) causes a corresponding wavelength shift. Allowing a bonding so to speak between waves thus enabling forces. See ship in the soup.

7. Why does copper produce electricity but cannot be magnetized?

8. Will iron wire that attracts the field produce a current when cutting a field.

9. Hysteresis

Ans? Spring breaking thus quantum jumping emitting heat on a different wavelength?

THEORY:

2. Heat is the continual emission from separating springs which emit electromagnetic wave waves. All heat is resonating of springs.

QUESTION: At what velocity will a rotating helix propagate from to its rotating screw effect. (similar to a prop in the water).

Note: The number of rotations per second equals the frequency.

Ans: Propagation Vel = (# of rotations/sec) * (Helix Wavelength)

or

Propagation Vel = (Frequency) * (Wavelength)

The propagation Velocity equals the speed of light as shown below.

Using the frequency of red light only for an example:

(640 E9 meters) * (4.6875 E+14 Cycles/sec) = 3 E+8 meters/sec

So, this gravitational wave model can transmit its properties at light speed. Put simply, even though the helix must rotate to attract it can do so at light speed. The magnetic force is similar.

HYPOTHESIS: It is expected that through using the proper frequency combinations and applications that local gravity might be nulled or affected.

INERTIAL HYPOTHESIS #2

Inertia can be explained as the gravitational interaction of all the matter (mass) of the universe on a local body. This relates to the threads via placing a torque on the threads emitted from both sides of the mass due to the movement of the mass. Similar to the rotation exhibited when a screw thread of high pitch imparts a rotation when pushed from the end.

EXPERIMENTS:

If so two disks placed flat side to flat side would impart energy to one another when 1 disk was rotated. since the above would be based on the extremely weak gravity wavelengths it would be too difficult to detect as a movement but might be detected as radio frequency from the Doppler difference heterodyning.

Both sides will absorb the helix threads when stationary. must relate to Doppler velocities found at beach during phenomena at perigee.

This simple helix wave idea has many variations. I need help arranging them to fit various attributes. If you or anyone else is interested I will give permission to discuss this theory openly here on compuserve's science forum. Please try to keep it in one thread. A very rough draft of the theory is in the library. Input will be properly accredited.

EXPERIMENT: Heterodyning of different size waves.

Place several peas in a microwave oven. Do not let them touch one another. Turn the oven on for a minute or so. Note that the peas are too small to absorb the microwave and will not get hot. Be sure to place a small glass of water in to prevent oven damage. This experiment shows a relationship between the size of waves which can or cannot combine. See file "microwav.txt".

INERTIA:

Moving an object imparts energy into the gyro particles through the electromagnetic wave rotating helices. This energy increases the gravity particles rotational velocity. Similar to pushing on the handle of the old style top or a push activated drill. Once the gyro particle rotation velocity is increased it desires to maintain its rotational energy level and electromagnetic wave helix output. Thus the mass maintains the motion imparted upon it. Attempting to slow the object then draws this energy back out through the electromagnetic wave helix emitted from the mass.

So the inertial force is created in and of itself. It is a part of the local gravity net.

This also sets natural limits to the maximum velocity an object can attain. The faster a mass goes the more rotation velocity the gravity particle must absorb.

HYPOTHESIS:

The above then is related to the rotation velocity of particles not their relative velocity. Accelerating a particle increases its spin thus altering its absorption characteristics.

HYPOTHESIS:

Two magnets moving with respect to each other will produce a detectable radio frequency wave. The Doppler shifting and heterodyning of the magnetic wavelength produces this wavelength. The heterodyned wave may appear only in quantum's related to the difference of the velocity between the magnets.

RADIO WAVE QUANTUM RELATIONSHIPS

See also text in file "absorpt.4".

Standard radio antennas used for transmission and reception of radio waves have quantum step relationships. Radio transmission requires an antenna which is either a whole number length of the frequency multiples of, or whole number fractions of the wavelength being transmitted. Example: 1/2, 1/4, 1/8. Proper tuning antennas to the exact length is important for proper emissions. Receiving rf is similar. A novel way to demonstrate this quantum relationship of radio frequencies is by use of the common household microwave oven.

Example:

Water droplets or small items like peas when kept separate will not absorb energy and heat up. Why? The pea is smaller than a microwave which is about 4 7/8 inches (10 cm).

Another variation on this:

First cook the noodle Fettuccini as directed. Various lengths of individually placed precooked moist Fettuccini will visually show the absorption areas along its length. The wave nature of the microwave is readily seen by inspecting both ends of this noodle. Bubbling occurs indicating energy absorption everywhere butte ends. Nodes will appear first and microwave time is 30 seconds to several minutes max. I feel this reveals the wave nature of a taut string. The microwave being the string and the noodle is its constraints. (SEE absorpt.4 for details on this experiment) (SEE also Extended Hypothesis "Finger Tips") Note: newer double wave ovens may corrupt results.

A very small emitter might inefficiently emit a larger wave but cannot absorb it.

ELECTRICAL THEORY:

Electricity is the result of the rotating helix electromagnetic wave. Amperage (volume) is the amount of electrons in alignment along the circuit path. Voltage (pressure) is the amount of wave stretch (elongation) that each individual electron has to heterodyne with. The greater the difference between waves the greater the

pressure. Adjoining waves (electrons) pulling on their neighboring wave. Error above: The greater difference between wavelengths would weaken the heterodyne bond and lessen the voltage.

Consider the following:

- 1 Catastrophic electric arc jump. An arc suddenly jumps.
2. The copper penny cooling experiment. See "Penny" file.

Element resistance may be derived from atomic wavelength heterodyning relationship.

Heterodyne relationship (maximums) may be found from the military oscillator experiments. (time to reach phase is important as well as the difference in wave size.)

ELECTRICAL GENERATORS:

Passing a magnetic field at right angles through a wire produces a electric current. As the magnetic field approaches the wire a positive voltage is produced. When the magnetic field moves away from the wire a negative voltage is produced. This can be explained by the Doppler theory. When the magnetic field approaches the wire it's frequency Doppler shift is positive (reducing wavelength). After the magnetic field passes over the wire it is now moving away in relation to the wire (Doppler shift is negative). The attraction of the two separate electromagnetic helixes (wire and field) produces the current flow. The voltage is positive during the approaching Doppler shifted field and then goes negative during the receding Doppler shift. The Doppler shift changes the size of the magnetic wavelength allowing for attraction. This can clearly be seen in the approaching and receding Doppler equations.

The wire only directs the direction of current flow. Without the straight line of the wire (a flat plate for example) the current simply shorts out.

ALL DOPPLER SHIFT ANSWERS ARE IN ERROR. THE HELIX AND EXCEPTION TO SUPERPOSITION RULE HAVE SUPERSEDED IT.

This implies the magnetic and electric wavelength are the same. Only the Doppler shifting of one can produce the wavelength shift to enable different sized waves to pull on one another thus create the voltage difference.

Resistance occurs when other atomic wavelengths are near enough to the electric wavelength to heterodyne with it thus absorbing some of the energy. If more atomic wavelengths are available to heterodyne very low frequency electromagnetic waves may be emitted. The electric wavelength may step down a quantum ladder so to speak.

Hypothesis:

Infrared (heat) being in the center of the spectrum would be the dumping region of all electromagnetic wavelengths. Due to heterodyning both up and down in frequency would result in this natural center area. Very long waves due to the lack of other similar slightly longer wavelengths would have a tendency to heterodyne with electromagnetic waves of smaller wavelengths. Very small wavelengths would exhibit the exact opposite tendency. The infrared region might be considered as the zero area. Larger wavelengths would be considered negative while smaller positive?

HYPOTHESIS:

Insulators have no wave size match for the heterodyning process to occur, thus heterodyning of the electric wave cannot occur. No energy can transfer.

HYPOTHESIS:

Flow from negative to positive. The push (flow) is from only one direction, the spiral electromagnetic emission from the electron.

IMPORTANT: The above seems to imply that current would flow from below ground level to ground, and from positive to negative. Assuming that the electron was the center wavelength that all voltage potentials attracted toward.

Logic Problem: Voltage or potential has not been identified described yet.

Options: E is amount of electrons or E is the heterodyne wave size differential.

HYPOTHESIS:

Alternating the electrons direction (antennas) produces its own electromagnetic wave by flipping its direction of helical emissions. Flipping the electron produces the electromagnetic radio wave.

The usual radio frequency wave cannot affect mass due to its back and forth or up/down movements in polarity. Instead of a pull it produces a buzzing effect, not a constant forward force but a back and forth movement. This can provide no lateral movement. Much like a out of balance wheel it is restricted by its counteracting opposing force.

SUPERPOSITION:

If you superpose the same type of electromagnetic wave in all directions you will get destructive interference and essentially either no force or electrostatic forces only. That's true, with one exception! Two rotating helix waves in sync will not cancel. The rotating helix waves however will not cancel because they rotate as fast as they propagate. Their phases are all in alignment! Visualizing this in a stationary frame of reference, the polarity (wave crest) remains in the same position as the helix wave passes by. Much like a strobe with a 1 to 1 ratio i.e. 1 flash for every 1 rotation. They are in sync.

The Principle of Monopole Superposition: (see pg. 440 University Physics)

Multiple objects are attracted equally obeying the inverse square rule of course.

Electrostatic forces are not affected by the presence of other nearby charges. Why? Particles radiate a electromagnetic helix as they spin every which way. This is why they can attract from all directions at the same time. Energized by the pulsing of the gravity net they require no energy of their own. This also allows them to attract in all directions via 1 helix wave.

Example: A stationary permanent magnet when brought close to another magnet cause its fields to migrate toward one another. Thus a second iron object brought close will experience a reduced attraction. It can only attract strongly a single object at any given time. Take this same permanent magnet and mount it on the perimeter of a spinning disk with one pole facing outward. Now when one or more attracting objects are

brought up to the disk they all exhibit the same attraction force (unlike a stationary magnet). Of course the spinning disk attraction force is now related to the disk radius. This is the principal of monopole superposition.

Also: (another analogy)

Two propagating separate side by side helix waves will not cancel. Similar to walking to the side (not on) of a escalator. The steps (phase) travels at the same velocity, thus the wave crests are always in the same position. This eliminates canceling until their relative velocities and stretching parameters are exceeded.

Another analogy might be:

An auto transmission. The synco brings the gears into near sync so they may mate without the grinding noise. If they do not mate (interfere) energy is dissipated as a pulsing sound wave.

Photons are sine waves(see below). Since there is no continuity as in a continuous strand sine wave, they obey superposition until their in exact phase at which time they interfere.

All previous Maxwell equations still hold true. With a wave type addition, The rotating electromagnetic wave Helix wave. It is still an electromagnetic wave wave with all its attributes. These equations need not be rewritten.

Sine waves cannot pass a torque (the pulling force) along their length. Sort of like firing a bullet at a piece of paper, or at a perfectly elastic surface. Plenty of energy in the bullet (sine wave). But it either passes right through, or bounces off. (a bullet can't push a piece of paper). The helix wave with the rotating attribute enables the force. Man made circularly polarized waves do not posses the entire wave rotation thus have no associated force. Their polarization is circular but they have no rotation.

MASS TO CHARGE RATIO MISNOMER:

This may be useful in evaluating the electron cloud. But to declare this as the "Mass to Charge Ratio" is a misnomer. It is more correctly called the "electrons mass to charge ratio".

Robert Millikan discovered that there is a single charge unit and all charges are based on this whole number. When we talk about gravity we rarely consider that gravity has a whole number also Its whole number is based on chemistry and atomic weights. Elements combine by atomic weights or whole numbers. The electron has a single unit of charge but does not possess a single unit of mass.

The text books error when they claim this is the "mass to charge ratio". They use the 'weight of the electron' in the ratio, and not the weight of the proton. The proton is the basis for the atomic mass unit (or nearly so). Also the basis for chemical combining by weights. You see, the electron has 1 complete charge unit but has less than one complete weight unit. An error in comparison. What they are solving for is the 1 charge to proton to electron G force ratio, or 1 charge / (proton to electron Gravity attraction) . The electron does not have a complete mass unit, yet has 1 complete charge. An comparison error.

The correct equation is: Proton to Proton G attraction / 1 charge.

See the difference?

The Proton to Proton Gravity attraction force is 1 COMPLETE unit. The Proton to Electron Gravity attraction force is not a unit at all! They have been comparing Apples To Oranges for years! So, Instead of using the weight of the electron, I have used the weight of the proton gravitationally attracting another proton. And I am using this based upon the proton weight is nearly the same as the atomic mass unit. Electron to Electron charge attraction compared to Proton to Proton gravitational attraction. So now we have the true charge to mass ratio! Reference: PHYSICS SI VERSION By Kane and Sternheim. Pg. 89. Example 5.6 solves this 10^{40} ratio using the weight of the proton.

If we then compare the weight of the proton with a single charge:

$k = 9^9 \text{ N m}^2 \text{ C}^2$ constant. N = Newton's : C = Coulombs

Proton Mass = $1.67 \times 10^{-27} \text{ kg}$: e = $1.6 \times 10^{-19} \text{ C}$

Electron mass = $9.11 \times 10^{-31} \text{ kg}$.

Arbitrary distance = $5.29 \times 10^{-11} \text{ m}$ (Orbit of electron in hydrogen)

$F = ke^2/r^2$: Electric Force.

$$= (9^9 \text{ N m}^2 \text{ C}^2) (1.6 \times 10^{-19} \text{ C})^2 / (5.29 \times 10^{-11} \text{ m})^2$$

$$= 8.23 \times 10^{-8} \text{ Newton's. Between two charges.}$$

Instead of using the weight of the electron, I have used the weight of the proton gravitationally attracting another proton. I am using this because the proton weight is nearly the same as the atomic mass unit. Electron to Electron charge attraction compared to Proton to Proton gravitational attraction.

Ratio =

$F_g = GmM/r^2$: Gravity Force.

$$F_g = (6.67^{11} \text{ N m}^2 \text{ kg}^{-2}) (1.67^{27} \text{ kg}) (1.67^{27} \text{ kg}) / 5.29^{11} \text{ m}^2 \\ = 6.65^{44} \text{ Newton's Gravity force between two protons.}$$

Now the ratio becomes:

$$\text{Mass To Charge Ratio} = 8.23^{18} \text{ N} / 6.65^{44} \text{ N}$$

$$\text{Mass To Charge Ratio} = 1.238^{36}$$

This is the apples to oranges I was speaking about: The text book example uses the force between two electrons. Then instead of using the gravity force between two protons. It compares the unit to the electron which has almost no weight.

One question; The mass of different particles can be broken up into smaller and smaller values. Can a value of the charge of some particles be broken into smaller and smaller units? Or is the electron charge always the smallest value of a charge of any given particle?

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Dictionary of Astronomy By: Jacqueline Mitton

Synodic Doppler computer programs.

Fundamentals computer program. (not available)

Thank's to the men and women on Compuserve's science, astronomy, and hamnet forums who answered my many questions from 1990 through 1999. I am a ghost writer. Ideas for this theory were given to me by one who desires to remain anonymous. I interpreted his ideas into words. I have an Associates in Mechanical Engineering Technology.

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BOOK 3

I was unable to finish the autobiography for lack of time, and a severe case of writers cramp.

"IN SEARCH OF GOD" THE AUTOBIOGRAPHY OF TODD WALTER GRIGSBY

Because of a dramatic life changing event. I was forced to make a difficult search for God. This lead to the discovery of the beach gravitational phenomenon and accompanying physics research. I wanted to remain anonymous because of the great hatred and persecution of Christians. My autobiography describes in detail what occurred.

Before God there was a small amount of primordial soup, 'the aether'. And the aether became God, and God created the universe of himself. And, the aether is still a part of God.

Explanation: (The aether before God created himself, was a small volume of random oscillating electro-magnetic fields.)

A self-building structure acquired intelligence from a minute random oscillating electro-magnetic field. No longer random, from here he (I am that I am) built the majestic universe with angelic beings to maintain it. This is why evolution makes such a strong manifestation, yet these spiritual beings exist correcting and building. This is support for the existence of god not the reverse.

I have removed my autobiography because it may be too disturbing at this time. I pray that this work is a blessing not a curse on mankind. Struggling desperately trying to find a way of making war impossible.

ADDENDUM

Is it possible that there are a limited number of atomic waves associated with sulfur and many other emission spectra are the result of heterodyning of these basic structural waves.

Evaluating atomic spectra with de-heterodyning equations

NOTE: This analysis took an unusual twist – Frequencies heterodyne not wavelengths. However the results are conclusive that somehow or has the appearance wavelengths are adding linearly together. How this happens is unknown. Possibly some kind of a string effect.

**ABSTRACT BASICALLY AN ERROR THAT PROOVED
TO HAVE SOME VALUE.**

Applying the principles of heterodyning frequencies found in electronics and radio. De-heterodyning equations are derived from the heterodyning principle and applied to the known values of emission spectra of the sulfur atom. Spectra values are inserted into the equations and results are then matched to known spectra line wavelengths of sulfur. Processing continues until all spectra values have been evaluated. The data is then compared to random generated sets of similar limits. The process shows potential of aiding in the prediction of complex spectra.

I. INTRODUCTION

In electronics a mixer or frequency mixer is an electrical circuit that creates new frequencies from two signals. Two signals at frequencies f_1 and f_2 are applied to a mixer and it produces new signals at the sum $f_1 + f_2$ and difference $f_1 - f_2$ of the original frequencies. The process is known as heterodyning.

A working definition of heterodyning: To generate new frequencies by mixing two or more signals in a nonlinear device such as a vacuum tube, transistor, or diode mixer. All waves, sound, radio, and light under certain circumstances will heterodyne. The result from heterodyning is the sum of two sinusoidal signals, one at the sum $f_1 + f_2$ and one at the difference $f_1 - f_2$ of the original frequencies. The original frequencies are fundamental. Other frequencies (wavelengths) result from heterodyning the fundamentals. Heterodyning a common radio term is the result of addition/subtraction of two frequencies.

The primary objective is to evaluate the heterodyning principle within complex spectra. The objective is realized through the incorporation of de-heterodyning known spectra values, not through predictions. However it becomes apparent spectra predictions can be made from the process. The computer program 'Rainbow'³ was incorporated to dissect and evaluate de-heterodyning spectra in a search for fundamental wavelengths. Results on elements processed to date have shown remarkable results when compared to random generated sets of similar limits. Elements processed show 2-3.9 times (depending on the element) more matches and one-fifth error average when compared to random sets of similar limits.

Two equations are derived from the heterodyne equation (in wavelength form) $Frequency\ new = f_1 \pm f_2$ by reversing the process of heterodyning (antonym of heterodyning) and applied in a computational evaluation to complex spectra. Using the derived de-heterodyning equations, trial and error calculations are performed on the complex spectra of sulfur.

II. EXCHANGING FREQUENCY FOR WAVELENGTH

A simple derivation to be certain the equation is valid with wavelengths.

$$f = \text{Frequency} \quad f_n = \text{Frequency New} \quad \lambda_n = \text{Wavelength New} \quad c = \text{Velocity of light}$$

Original heterodyning equation:

$$f_n = f_1 \pm f_2 \quad (1)$$

Converting frequency to wavelength:

$$\lambda = c / f \quad (2)$$

Replacing f with λ and dividing by c :

$$\lambda_n = \lambda_1 \pm \lambda_2 \quad (3)$$

Equation reverts to the original format except λ has replaced frequency.

So when considering wavelengths the equation is identical only the symbols change

III. HETERODYNING A GIVEN SET OF NUMBERS

This exercise is accomplished only to provide an example, later applied to actual spectra values. Four chosen numbers are picked: 3, 7, 13, and 60. The numbers are inserted into the equation two at a time

until all the combinations have been solved. Two numbers are generated each time because the equation is plus and minus and the lower number is always subtracted from the higher so we always have a positive result. Number of Possibilities = $N * N - 1$.

Note: The numbers were chosen so that when heterodyned cannot generate another of the original five. This will be an important fact for later. The results are the following table I. The complete set is shown below.

| Table I |
|----------------------|
| $03 \pm 07 = 04, 10$ |
| $03 \pm 13 = 10, 16$ |
| $03 \pm 60 = 57, 63$ |
| $07 \pm 13 = 06, 20$ |
| $07 \pm 60 = 53, 67$ |
| $13 \pm 60 = 47, 73$ |

Originals: Heterodyned set:
 $(3,7,13,60)$, and $4,10, 10,16, 57,63, 6,20, 53,67, 47,73$

A total of 16 numbers, frequencies, or wavelengths, not too astounding but necessary for the sake of applying it to the atomic spectra as shown later in the search for fundamental wavelengths. Later we can locate the original numbers (3,7,13,60) from the full set of 16 numbers in a solve then trial and error search.

Now assume we have no knowledge of what the original numbers were. But have the entire set, the originals and all the results. The following derives two equations that can be used to find what the original numbers were, given we have all or most of the set of 16. If some are missing we can still make some conclusions of what they might be.

IV. DERIVATION OF TWO DE-HETERODYNING EQUATIONS

The following derives two equations which solve for the original numbers (3 & 7) when only the results from $\lambda n = \lambda_1 \pm \lambda_2$ (4 & 10) are known.

$\lambda n = \lambda_1 \pm \lambda_2$ Heterodyne equation in wavelength format

Given two numbers as examples: 3 and 7 and inserting into the above heterodyne equation results in the below two numbers.

$$3 + 7 = 4 \text{ and } 10$$

Subtracting 4 from 10 and dividing by 2 results in one of the original numbers
 $(10 - 4) / 2 = 3$ Answer (equation #1)

Take the above result (3) and subtract it from the higher number results in the other original number.

The resulting two equations are as follows:

$$F_1 = (\text{PickHi} - \text{PickLo}) / 2 \quad (4)$$

and

$$F_2 = \text{PickHi} - (F_1) \quad (5)$$

These two equations can locate the original or fundamental numbers which produced the heterodyned set of numbers from the previous example. This works with any combination of numbers. The problem is you don't know which pairs go together. The next section will resolve this issue by evaluating every possible combination and searching for a match within the full set of numbers, a trial and error process.

V. APPLYING THE DE-HETERODYING EQUATIONS

Not to over simply, but for the sake of presenting a through explanation of the procedure. From the previous example: 'original' and 'heterodyned' sets (3,7,13,60), and 4,10, 10,16, 57,63, 6,20, 53,67, 47,73 respectively. Notice that two tens were generated by two different pairs. This is not only ok but provides an eye opener later when evaluating spectra.

Assuming we have no idea which numbers generated the full set and no order is known. If the complete set of 16 numbers are available the original numbers 3, 7, 13, and 60 can be located from the jumbled set using the two fundamental equations derived above. The trial and error procedure as follows untangles the set finding the original or fundamental set of four numbers.

Entire set is alphabetized in ascending order: 3,4,6,7,10,13,16,20,47,53,57,60,63,67,73.

1. Two numbers are picked a high and low and inserted into the F_1 and F_2 equations
For example: 57 and 63 $F_1 = (63 - 57) / 2 = 3$ and $F_2 = 63 - (63-57) / 2 = 60$
2. A match using the full set is then attempted (these are matches).
3. When every possible combination of pairs is evaluated the original set reveals itself, and non matches are rejected.

Next we will assume these are spectra (using real spectra values) with the prospect that de-heterodyning results will match them. If this is the case then some if not all of the fundamental wavelengths can be found by a trial and error method. Comparing the actual results to random generated sets provides a good proof to the validity of the concept.

VI. PROCEDURE APPLIED TO THE ATOMIC SPECTRA OF SULFUR

The author employed a computer program³ as an aid in the evaluation. A similar trial and error procedure as previously outlined above is applied to the atomic spectra of the sulfur atom.¹ A high pick and low pick spectra value from the element sulfur is inserted in F_1 , and F_2 equations. A search for a spectra match to the result is then performed. A computer loop procedure cycles through all spectra inputting each wavelength into the two equations until all possible combinations are evaluated. The spectra matches are located under the 'Match' column. Further evaluation (not detailed here) can also be accomplished.

Example of sulfur spectra inserted into F_1 equation. (See line 2 Table II)

$$F_1 = (1316.618 - 437.4) / 2$$

$F_1 = 439.609$ Result matches sulfur spectra 439.60 Å. error = $439.609 - 439.6 = .009$

Table II are compelling results of processing 252 wavelengths of sulfur spectra.¹ Results from equations are rejected if the answer does not match a known spectra value within tolerance of .01 Angstroms. Sulfur spectra exhibits 2.6 to 3.9 times more matches than random generated sets with similar limits. Sulfur exhibits an astonishing 56 results with a zero error (perfect matches) of a total of 88 matches. Comparable random generated sets only generate 0 to 1 matches with a zero error. The error average of random generated sets is approximately .005 when compared to sulfur .00092, a 5 to 1 ratio. These are substantial differences. The x-ray value 83.4 Angstroms appears as a fundamental wavelength further enhancing the results. Due to the small value of the remaining x-ray spectra the author elected to remove these for this disclosure. *The difference between two spectra was not included on this short table. The long table² designates these transitions as 'ADD' in the 'Equ.' column.*

Table II. Sulfur spectra de-heterodyning calculation results.
Ion levels I-V 252 Entries Range 83.4 to 10459 Å. Error Tolerance .01 Å.

| Cnt. | Match | PickLo | PickHi | Equ. | Error |
|------|---------|----------|----------|------|--------|
| 1 | 83.400 | 520.100 | 686.900 | F1 | 0.0000 |
| 2 | 439.600 | 437.400 | 1316.618 | F1 | 0.0090 |
| 3 | 522.000 | 2665.400 | 3709.400 | F1 | 0.0000 |
| 4 | 522.500 | 3117.700 | 4162.700 | F1 | 0.0001 |
| 5 | 522.500 | 8694.700 | 9739.700 | F1 | 0.0000 |
| 6 | 652.500 | 551.200 | 753.800 | F2 | 0.0000 |
| 7 | 653.600 | 7930.300 | 9237.500 | F1 | 0.0001 |
| 8 | 653.600 | 1201.000 | 2508.200 | F1 | 0.0000 |
| 9 | 655.900 | 6384.900 | 7696.700 | F1 | 0.0001 |
| 10 | 659.800 | 655.900 | 663.700 | F2 | 0.0001 |

| | | | | | |
|----|----------|----------|-----------|----|---------|
| 11 | 660.900 | 1077.100 | 2398.900 | F1 | -0.0001 |
| 12 | 660.900 | 438.200 | 883.600 | F2 | 0.0000 |
| 13 | 661.400 | 1396.112 | 2718.900 | F1 | -0.0061 |
| 14 | 666.100 | 522.500 | 809.700 | F2 | 0.0000 |
| 15 | 677.300 | 664.800 | 689.800 | F2 | 0.0000 |
| 16 | 678.100 | 519.300 | 836.900 | F2 | 0.0000 |
| 17 | 680.300 | 83.400 | 1277.216 | F2 | 0.0080 |
| 18 | 680.900 | 4925.300 | 6287.100 | F1 | 0.0001 |
| 19 | 686.900 | 680.300 | 693.500 | F2 | 0.0000 |
| 20 | 691.700 | 1077.100 | 2460.500 | F1 | 0.0000 |
| 21 | 693.500 | 1073.500 | 2460.500 | F1 | 0.0000 |
| 22 | 738.500 | 680.300 | 796.700 | F2 | 0.0000 |
| 23 | 786.500 | 666.100 | 906.900 | F2 | 0.0000 |
| 24 | 786.500 | 8882.500 | 10455.500 | F1 | 0.0000 |
| 25 | 789.000 | 693.500 | 884.500 | F2 | 0.0000 |
| 26 | 796.700 | 902.800 | 2496.200 | F1 | -0.0001 |
| 27 | 796.700 | 1392.588 | 2986.000 | F1 | 0.0060 |
| 28 | 798.300 | 3097.500 | 4694.100 | F1 | 0.0001 |
| 29 | 804.000 | 1110.900 | 2718.900 | F1 | -0.0001 |
| 30 | 804.000 | 798.300 | 809.700 | F2 | 0.0000 |
| 31 | 816.000 | 748.400 | 883.600 | F2 | 0.0000 |
| 32 | 849.200 | 4120.800 | 5819.200 | F1 | 0.0002 |
| 33 | 860.500 | 658.300 | 1062.700 | F2 | 0.0000 |
| 34 | 883.600 | 902.800 | 2670.000 | F1 | 0.0000 |
| 35 | 885.800 | 663.200 | 1108.400 | F2 | 0.0001 |
| 36 | 902.800 | 693.500 | 2499.100 | F1 | 0.0001 |
| 37 | 905.900 | 1305.883 | 3117.700 | F1 | 0.0084 |
| 38 | 910.500 | 883.600 | 937.400 | F2 | 0.0000 |
| 39 | 910.500 | 678.100 | 2499.100 | F1 | 0.0001 |
| 40 | 912.700 | 824.900 | 1000.500 | F2 | 0.0000 |
| 41 | 937.700 | 798.300 | 1077.100 | F2 | -0.0001 |
| 42 | 996.000 | 883.600 | 1108.400 | F2 | 0.0000 |
| 43 | 1073.000 | 1014.400 | 1131.600 | F2 | 0.0000 |
| 44 | 1073.000 | 522.000 | 1624.000 | F2 | 0.0000 |
| 45 | 1077.100 | 693.500 | 2847.700 | F1 | 0.0000 |
| 46 | 1102.300 | 1073.000 | 1131.600 | F2 | 0.0000 |
| 47 | 1108.400 | 900.900 | 3117.700 | F1 | -0.0001 |
| 48 | 1131.000 | 6052.700 | 8314.700 | F1 | 0.0000 |
| 49 | 1131.600 | 1234.100 | 3497.300 | F1 | 0.0001 |
| 50 | 1131.600 | 439.600 | 2702.800 | F1 | 0.0000 |
| 51 | 1234.100 | 660.900 | 1807.311 | F2 | 0.0055 |
| 52 | 1250.500 | 1108.400 | 1392.588 | F2 | -0.0060 |
| 53 | 1250.500 | 1131.000 | 3632.000 | F1 | 0.0000 |
| 54 | 1253.800 | 883.600 | 1624.000 | F2 | 0.0000 |
| 55 | 1303.430 | 786.500 | 1820.343 | F2 | -0.0085 |
| 56 | 1388.435 | 1302.863 | 1473.995 | F2 | -0.0061 |
| 57 | 1624.000 | 654.000 | 3902.000 | F1 | 0.0000 |
| 58 | 1629.200 | 750.200 | 2508.200 | F2 | 0.0000 |

| | | | | | |
|----|----------|----------|----------|----|---------|
| 59 | 1820.343 | 522.000 | 4162.700 | F1 | 0.0071 |
| 60 | 1826.245 | 789.000 | 2863.500 | F2 | 0.0050 |
| 61 | 2387.000 | 1624.000 | 6398.000 | F1 | 0.0000 |
| 62 | 2398.900 | 849.200 | 5647.000 | F1 | 0.0000 |
| 63 | 2489.600 | 1073.500 | 6052.700 | F1 | 0.0000 |
| 64 | 2489.600 | 836.900 | 4142.300 | F2 | -0.0002 |
| 65 | 2508.200 | 437.400 | 5453.800 | F1 | 0.0000 |
| 66 | 2680.500 | 4332.700 | 9693.700 | F1 | 0.0000 |
| 67 | 2680.500 | 664.800 | 4696.200 | F2 | 0.0000 |
| 68 | 2680.500 | 691.700 | 6052.700 | F1 | 0.0000 |
| 69 | 2691.800 | 902.800 | 6286.400 | F1 | 0.0000 |
| 70 | 2691.800 | 1014.400 | 6398.000 | F1 | 0.0000 |
| 71 | 2731.100 | 824.900 | 6287.100 | F1 | 0.0000 |
| 72 | 2785.500 | 854.800 | 4716.200 | F2 | 0.0000 |
| 73 | 2797.400 | 1473.995 | 4120.800 | F2 | -0.0024 |
| 74 | 2863.500 | 2741.000 | 2986.000 | F2 | 0.0000 |
| 75 | 2904.300 | 3933.300 | 9741.900 | F1 | 0.0002 |
| 76 | 2904.300 | 884.500 | 4924.100 | F2 | 0.0000 |
| 77 | 3497.300 | 2741.000 | 4253.600 | F2 | 0.0000 |
| 78 | 3632.000 | 1624.000 | 5640.000 | F2 | 0.0000 |
| 79 | 3632.000 | 664.800 | 7928.800 | F1 | 0.0000 |
| 80 | 3867.600 | 1914.698 | 9649.900 | F1 | 0.0010 |
| 81 | 3928.600 | 1108.400 | 6748.800 | F2 | -0.0002 |
| 82 | 4142.300 | 2856.000 | 5428.600 | F2 | 0.0000 |
| 83 | 4285.000 | 1102.300 | 9672.300 | F1 | 0.0000 |
| 84 | 4694.100 | 693.500 | 8694.700 | F2 | 0.0000 |
| 85 | 4694.100 | 1073.500 | 8314.700 | F2 | 0.0000 |
| 86 | 5640.300 | 4993.500 | 6287.100 | F2 | 0.0000 |
| 87 | 5706.100 | 3097.500 | 8314.700 | F2 | 0.0000 |
| 88 | 6384.900 | 3097.500 | 9672.300 | F2 | 0.0000 |

Error Average: 0.00092

Note the multiple hits (matches that came from more than one pair). See Table II. (short table)
Line count: (3,4,5) (7,8) (11,12) (23,24) (26,27) (29,30) (38,39) (43,44) (49,50) (52,53) (63,64) (66,67,68) (69,70) (75,76) (78,79) (84,85). Here the same result came from two different sources, 23 matches of this type (including the two with three separate sources). Random sets² display only 1-4 of these and none from three separate sources. These findings cannot be coincidental.

VII. CONCLUSION

The importance of the large amount of computational results showing zero error within the sulfur spectra is overwhelming. When the tolerance is increased to .1 Angstroms all but five wavelengths are engaged. When the match tolerance for sulfur spectra in the search is set at .25 Angstroms 1612 matches show and every one of the 252 wavelength entries¹ are engaged. Comparable random sets² generate approx. 960 matches when tolerance is set at .25. Other elements, helium, carbon and lead show similar results.² Hydrogen requires
135

harmonic divisors to complete the set. Most elements show only one fundamental equation (F_1 or F_2) appearing with any given pair of picks. Helium has several exceptions.² There seems to be some significance why there are so many exclusions to the use of only one equation at a time. The author has done further work in regards to the heterodyning of wavelengths.²

- [1] David R. Lide, CRC Handbook of Chemistry and Physics 1st Student Edition
ISBN 0-8493-0740-6
- [2] <http://synodicgravity.com/>
- [3] **Todd W. Grigsby, Rainbow computer program**

PUT A LIST OF VIDEOS AND ADDRESSES HERE SHOWING WAVES

Longitudinal and Transverse Wave Motion

<http://www.kettering.edu/physics/drussell/Demos/waves/wavemotion.html> (See here also: Rayleigh Waves
demo related to helix wave forms)

<http://www.kettering.edu/physics/drussell/demos.html>

NOTES:

I have a file on how light waves can bounce yet pass directly through another. – It is not ready yet.

USING JUST THE HELIX WAVE FORM AND DOPPLER SHIFTING ALL THE ATTRIBUTES
DESCRIBED IN RELATIVISTIC THEORY CAN BE ACCOUNTED FOR. (need list of attributes and outline
on how accomplished)

Reviews: Original e-mail text on Jul 9 2012.

from Maurice Cotterell

Inboxx

sunspotuk@aol.com Jul 9

to me

Dear Todd

Forgive me for not getting back to you sooner, I have been ill; I contracted internal Candida after Christmas and it has taken 5 months to clear it using anti-fungal drugs This is just to say that I did read your biographical notes. You seem to be unduly harsh on yourself. You need to forgive yourself and move-on. ‘The moving hand writes and all thy piety or wit shall not lure it back to cancel half a line, nor any tear wash away a word of it’. I also read with interest your work on Gravity and the many experiments; truly divinely inspired. My love to you and yours.

Sincerely

Maurice Cotterell

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RECENT POST ON OVERUNITY FORUM: 03-30-13.

Hello I am new to this forum so please bear with me.

I put many years studying a gravitational phenomenon.

It has been published in several magazines. Infinite Energy magazine 2011, Volume 17, Issue 97 pg. 39 and volume 14 No. 84 (Letters to the editor), also Extraordinary Technology Magazine Volume 6 #2 2008.

Regarding the book download found at the site: The work was very difficult, much more than I had expected and I may be unable to condense it into a more readable form.

The work covers how a rotating helix (spiral) electromagnetic wave can produce mass increase, time dilations, and length contractions. Please note that Einstein's gravitational theory has no force (gravitational force) associated with it. Curved space and time replaces the force. A rotating helix em wave can accomplish the same thing passing through all matter with the ability to expand and contract it. All the attributes found in Einstein's theory can be explained by a rotating helix wave. Since the extremely small wave passes through everything it cannot be detected by normal means.

There is some new insights into the adding of wavelengths of atomic spectra (normally only frequencies add) on page2 of the site.

Since the atom (by way of atomic weight) is related to gravity I have mentioned this.

Maybe someone can come up with ways to utilize the work in space travel or anti-gravity devices. I had some minimal success with a microwave device that emitted a rotating helix em wave.

First discovered in the 1990's the work has been plagiarized somewhat - however there seems to be some good coming out their work as well. I have been well through the scientific community and found they are very difficult to deal with. There are a few unaddressed questions so maybe you can find some solutions.

Please be patient my schedule especially around tax time is limited.

[b]Have fun and may the force be with you.[/b]

[url]synodicgravity.com[/url]

synodicgravity.com

Regards, Todd.

The understanding of field forces is still unanswered. If you can't figure it out from here there is something wrong with you. Scientists still don't know exactly what causes the attraction forces of magnetism either. They have come up with a bunch of guesses. The gravity field is the same as magnetism except they are different wavelengths and gravity waves pulse on and off which greatly reduces the force. The reason why scientists cannot figure out what gravity is (still argue over it) is due to a basic error in early physics. Small

sized water waves coming from two directions can directly pass through another unaffected, however when they get larger they began to crash into another. Radio waves or electromagnetic waves also appear to pass directly through another unaffected. However I contend they convolute slightly, twisting by another while still passing directly through another. This can be seen in several physics experiments but cannot be accepted due to a basic error in physics. These experiments hence have paradoxes thus cannot ever be fully understood unless the concept of superposition is re-evaluated.

Photons are electromagnetic waves. The helix wave also is an electromagnetic wave and can be considered a photon – they impinge imparting a force. I presented the special properties of the rotating helix wave form in 1992. The rotating helix wave is only now becoming recognized as possessing special properties.

<http://www.wired.com/wiredscience/2011/03/laser-tractor-beam/> and, FutureScience by Maurice Cotterell Celtic Press.

No brainer: http://en.wikipedia.org/wiki/Magnetic_field : http://en.wikipedia.org/wiki/Electric_field

A radio wave radio wave traveling through the atmosphere to your receiver carries both an electric and magnetic field component. Normally the magnetic field component of this radio wave alone cannot produce a force. Everyone knows passing electricity through a round coil generates a magnetic field. Here we see the two fields electric and magnetic arranged in a coil. Could it be possible that the free traveling radio wave might be arranged in such a way so to produce a force similar to the magnet? As a radio wave propagates the magnetic field goes positive then negative at the speed of light. This positive then negative direction change is similar to placing four magnets directions in both attraction and repulsion at the same time resulting in a zero net attraction force (two attract and two repel). However we all know that altering the configuration will result in either total repulsion or total attraction. Is it then possible to configure the radio wave to behave like two attracting or repelling magnets even though it is acting like the four magnetics of zero force? Yes it is possible, if the radio wave is configured in a round form like the coil of the electro-magnet. But the radio wave normally propagates like a beam of light in straight lines. How can we make a radio wave go round and round like the current passing through the electromagnet? You see the electromagnetic also has two components the electric field and the magnetic field but it can be directed through a wire in a round and round fashion by winding a coil of wire. A radio wave can be produced that has a spiral form (most radio waves just go up and down). A spiral or helix radio wave is called a rotationally polarized or helix wave. However this radio wave still cannot produce a force unless it is given another special attribute. This attribute is axial rotation. This radio wave now can push or pull on objects but only those materials of which it can interact with much like a microwave warms up water but passes directly through a ceramic cup unaffected. Now this wave looks like the screw water pump Archimedes designed. Another problem could arise if the axiel rotation rate is less than the propagation rate. Here the out of phase up and down component of the magnetic field may again cancel out the attraction.

<http://www.cellularuniverse.org/AA3AetherHistory.htm> Very good page on aether history

Currently physicist use two gravity theories, one with a force to calculate orbital mechanics and one without a force, relativity. There cannot be a force field unless there is an ether field. The ether field enables the relativistic properties and allows for a gravity force. The ether field was mistakenly rejected by physics a hundred years ago. At this time they did not consider all the properties an ether field might possess. Mainly they only considered that the ether field was like a wind that flowed around the experiment. Had they considered that the field might also be passing through the apparatus (pondering what such a field could do) then the conclusions could have been different.

The present theory is based on curved space time and by their own words cannot be related to quantum mechanics. LIGO can only pick up gravitational fluxuations in the field not the ambient field itself.

Scientists are mixed up and have built upon an error and will never be able to solve the great question “What is Gravity”. We must stop the funding of gravity research based upon false premises. Scientists will not listen to reason and men are afraid to speak out for fear of losing their positions.

The source of gravity was discovered some time ago but rejected by the scientific community.

Several years ago Pons and Fleischmann lost their university jobs after they were interviewed on TV about cold fusion which now is science fact. Interviews by Fleischmann can be found on YouTube on how he was expelled from the main stream scientific community and destroyed their careers.

Approaching the scientific community with a new idea is almost an impossible task. Using tactics of intimidation, name calling, labeling private researchers as crackpots to protect their positions. Men in authority ban people that present alternative ideas from main stream physics and astronomy forums.

However I believe they are mainly protecting their integrity. It is a sign of weakness to protect ones integrity by the use of abuses of any kind. This book may contain some errors however the rotating helix wave is on solid ground. Errors usually result from attempting difficult ground breaking work of which this is. Main stream science expects very high end text book like quality requiring many years of work and is very difficult to obtain. So why the scientific community is so hard on independent researchers is from their requirement of these high standards. To avoid the ridicule and embarrassment themselves they have built a high wall between what is known and what might be known. They have some rights to be this way however should find a better way to deal with new ideas other than ridicule, intimidation, and black balling. Some humility is required. It is easier to kick some one off a forum and out of communications then to explain their errors in such a detailed way they may understand. There is a bunch of neat research that can be done – but has been rejected.

Many in the scientific community are afraid to speak out for if they were to accept this then hundreds of millions of dollars funded annually to search for the cause of gravity would stop, thus defeating any incentive to find one. Stop the funding and an army of physics and mathematicians would be thrown out of employment overnight. By subverting the truth they allow foreign nations to leap frog US research. I’m afraid this has been the case in the past. They refuse to speak up for fear of ridicule, or losing their jobs and government funding. Even an interview may not be able to change things as the scientific community is extremely resistant to change as was the case with Pons and Fleischmann. But the answer to gravity is right before our eyes and you can see it for yourself as will be shown in the next paragraph.

Scientists will not listen to reason. Gravity is a radio wave helix that pulls by rotating its helix like the threads on bolt or screw pull when rotated. A radio wave is an electromagnetic wave as is light and microwaves. I used radio as a generic term so not to lose your attention with esoteric terminology. In the below paragraph

See the photograph for yourself at <http://synodicgravity.com> – The rust particles are standing on their ends like iron filings do when sprinkled on a strong magnet. It is not that hard to figure out and you can figure it out too. I am simplifying this as much as possible so may sound silly at first but helix waves emitted from the tiny atom spin like the threads on a bolt. Passing through everything like x-rays, neutrons, and wind through your thin clothing each one exerts a slight force. Totaling all the atoms results in a significant force we feel as gravity or weight when stepping on the bathroom scale.

You can see a similar related phenomenon yourself - ripple motions on lakes and smooth flowing rivers but the scientific community will tell you it is not from gravity. The moon and sun cause huge tide motions and even cause bulges on the sea surface. But as far as causing ripples on lakes and rivers they will tell you this is ridiculous. I have photos and videos of magnetic iron rust particles standing on end and they just laugh and scoff at it. After years of knocking at their door it has become clear something else is standing in the way (money and positions). As previously mentioned I am not the only person supporting the helix theory however I am the foremost authority on it.

I don't care what they say because they are dead wrong – the evidence is very clear. I have had long drawn out arguments with them on scientific forums and the end result is I get kicked off even when being as polite as possible. After being kicked of forums my YouTube video audio was corrupted and I've gotten computer viruses the very next day. It had to be from the forum sysop as I used the same password for YouTube, and Physics.org forum as well as astronomyforum.net. These people are very intelligent and pack a lot of intellectual and scientific knowledge they use for punching power easily overwhelming and swaying the opinion of politicians enabling their project funding. In the case of gravity they are dead wrong and have not a clear explanation for either gravity or magnetism. Approaching gravity on mathematical concepts they have left reality behind.

<https://research-repository.st-andrews.ac.uk/handle/10023/4019>

Arita, Yoshihiko

Authors: Mazilu, Michael
Dholakia, Kishan

Keywords: Optical physics
QC Physics

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Citation: Arita , Y , Mazilu , M & Dholakia , K 2013 , 'Laser-induced rotation and cooling of a trapped microgyroscope in vacuum ' Nature Communications , vol 4 , 2374 .

Abstract: Quantum state preparation of mesoscopic objects is a powerful playground for the elucidation of many physical principles. The field of cavity optomechanics aims to create these states through

laser cooling and by minimizing state decoherence. Here we demonstrate simultaneous optical trapping and rotation of a birefringent microparticle in vacuum using a circularly polarized trapping laser beam—a microgyroscope. We show stable rotation rates up to 5 MHz. Coupling between the rotational and translational degrees of freedom of the trapped microgyroscope leads to the observation of positional stabilization in effect cooling the particle to 40 K. We attribute this cooling to the interaction between the gyroscopic directional stabilization and the optical trapping field.

Version: Publisher PDF