

A bit of light about

Gravity Waves

Copied from the 2013 Britannica DVD: "gravity wave also called gravitational radiation:

the transmission of variations in the gravitational field as waves. According to general relativity, the curvature of space-time is determined by the distribution of masses, while the motion of masses is determined by the curvature. In consequence, variations of the gravitational field should be transmitted from place to place as waves, just as variations of an electromagnetic field travel as waves. If the masses that are the source of a field change with time, they should radiate energy as waves of curvature of the field."

Evidence for gravity waves was obtained by studying the changing orbital period of a neutron star binary, resulting in the 1993 Nobel Prize in Physics.

BUT gravity waves have yet to be directly observed.

"Gravitational waves represent one of the missing pieces of Einstein's theory of general relativity,"

says Andrew Geraci in

Geraci says, "Gravity waves propagate from the remote corners of our universe, they stretch and squeeze the fabric of space-time, A passing gravity wave changes the physically measured distance between two test masses - small discs or spheres. In our approach, such a mass experiences minimal friction and therefore is very sensitive to small forces."

Yes, this is a correct concept and I wish Andrew Geraci luck in proving it.

If [Dr. Milo Wolff](#) is correct then this fabric of space-time, mentioned by Geraci, is *also* built of waves, thus we must also know the wavelength of this space that we are physically measuring the distance of, in Angstroms, between Geraci's two test masses.

However, since the electron spin is conserved, we know each and every force produced by the electron spin: yet *none* of these forces is gravitational in nature.

But then why does gravity bend light?

Ah, that has to do with resonance: It seems the down quark spin frequency is the square of the

electron spin frequency and it is this resonance that is effective in bending light.

<http://www.amperefitz.com/dquark.htm> or in Adobe pdf
<http://www.amperefitz.com/dquark.pdf>

And what about Robert Dicke's prediction?

Copied from the 2013 Britannica DVD: "Robert Henry Dicke
born May 6, 1916, St. Louis, Mo., U.S.

died March 4, 1997, Princeton, N.J.

American physicist noted for his theoretical work in cosmology and investigations centering on the general theory of relativity. He also made a number of significant contributions to radar technology and to the field of atomic physics. . . . By the 1960s Dicke had become actively **interested in gravitation.**"

Yes, Robert Dicke claimed that if gravity was caused via phase or relative motion then we would see **interference fringes**. He turned out to be right because now with the advent of the Hubble space telescope we are actually seeing Dicke's **interference fringes** and their cause is being seen as gravitational lensing caused by Einstein's curved space. These **interference fringes** (gravitational lensing) seem to be giving us more proof of actual gravitational waves.

Copied from the 2013 Britannica DVD "Interference fringe:
a bright or dark band caused by beams of light that are in phase or

out of phase with one another. Light waves and similar wave propagation, when superimposed, will add their crests if they meet in the same phase (the waves are both increasing or both decreasing); or the troughs will cancel the crests if they are out of phase; these phenomena are called constructive and destructive interference.

Also there is something else we have to consider:

Copied from the 2013 Britannica DVD "Mach, Ernst

... Mach also proposed the physical principle, known as **Mach's principle**, that inertia (the tendency of a body at rest to remain at rest and of a body in motion to continue in motion in the same direction) results from a relationship of that object with all the rest of the matter in the universe. Inertia, Mach argued, applies only as a function of the interaction between one body and other bodies in the universe, even at enormous distances. Mach's inertial theories also were cited by Einstein as one of the inspirations for his theories of relativity."

Mach's principle, is essentially saying that molecules here are binding with molecules in the surrounding stars to give us inertial mass. This is essentially what Andrew Geraci is telling us too and it is **extremely important!** But so few realize it!

So I'll repeat what I said in my previous paper:

Mach's principle is half of science. If you sweep **Mach's principle** under the rug, as many in this present science group have done, then there is no way you can understand either gravity or inertia.

OK, since we know the electron spin is conserved

then it cannot be causing gravity. We also know quark spin is not conserved but **is** conserved if the down quark spin causes gravity. Therefore it is only common sense that it is the down quark spin frequency (*the square of the electron spin frequency*) that is *one of the causes of gravity*.

I said *one of the causes of gravity* because gravity seems to be divided into two distinct frequency bands: one is very much higher and one is very much lower than the electron spin frequency. We seem to be measuring everything with a space that is at the electron orbital frequency of our *electron speed of light* measuring stick. **However, this measuring stick seems to be fooling us by getting longer and longer the further out we measure.** It seems to be measuring our galaxy much bigger than it really is -- *thereby giving the galactic arms far too much centrifugal force* -- where these galactic arms exceed their escape velocity.

Since these galactic arms cannot exceed their escape velocity then we **know** we have one of the following:

- 1.** Our measuring is wrong. (*Our speed of light measuring stick erroneously measures things as longer and longer -- or larger and larger -- the further out we measure.*)

2. We really have "missing gravitational matter" (Dark Matter we cannot see) holding our galaxy together.

Or, it may actually be some of '*both of the above*' so we must listen to [Stephen Wolfram](#) (*below*).

Since Dr. Milo Wolff has more or less proven we are in a scalar, standing wave universe, he has given us a *beautiful* scalar, standing wave model for us to see how this universe is designed

Mathematician [Stephen Wolfram](#) proved and said in his best seller *A New Kind of Science*, that "Math can only explain simple things -- *like Newton did with his math* -- but a simple model can explain a complicated universe."

I've added a bit to Alexander Pope here:

Nature and Nature's laws lay hid in night:

God said, "Let Newton be!" And all was light.

Huygens said, "But Newton didn't **tell us why**

We have gravity and all these objects in the sky."

Milo Wolff's model really does *finally* **tell us why**.

In this model dependent science world of today, Milo's scalar, standing wave model gives us the very

first 3D, widescreen, technicolor picture of reality that is far, far superior to that of any models presently being used.

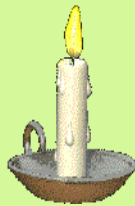
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This scalar, standing wave model is the *only* single model that explains the entire universe!

+++++

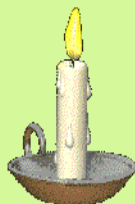
In the following you can see how it sheds light on *Dark Matter* and *Dark Energy*.

Here's a bit of light about both *Dark Matter* and *Dark Energy*:



[Read "**More** about Dark Matter and Dark Energy" **FREE** in html.](#)

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[Fitzpatrick's First Book](#)

If you copy this page with its [links](#) to your computer then you will have some other pages ([links](#) -- both [htm](#) and [Adobe pdf](#)) to read because I've only barely scratched the surface of things in this short paper.

Fitzpatrick's website is at <http://www.amperefitz.com>

Another older website carrying Fitzpatrick's works FREE is:
<http://www.rbduncan.com>

Thank you, [World Scientist Database - - Daniel P. Fitzpatrick Jr.](#)

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While all the links on this page are OK and presently working, unfortunately only about two thirds (2/3) of the links I gave, years ago, as proof (click & see:

<http://www.amperefitz.com/presskit.html>) for statements in this latest book, published in the year **MMVI**, are now still working **BUT** your search engine will probably take you to a similar area where you should be able to read similar proof material.

& super popular now:

[QED - Feynman's Strange Theory of Light and Matter](http://www.amperefitz.com/qed) "Feynman's Strange Theory of Light and Matter"

<http://amperefitz.com/einsteins.cos.c.htm> Einstein's Cosmological Constant.

<http://www.amperefitz.com/two.magnets.htm> Two magnets will show you more than thousands of books.

<http://amperefitz.com/exeshorttoe.html> Extra short Theory of Everything.

<http://www.amperefitz.com/45years.htm> 45 Years of Putting this Jigsaw Puzzle together - of unifying Gravity with all the other forces.

<http://www.amperefitz.com/question.htm> "Ampere's Long Wire Law is a fact!"

<http://www.amperefitz.com/why.general.relativity.htm> Why we have General Relativity or why mass increases with speed."

<http://amperefitz.com/answers.to.mendel.htm> "Dan Fitzpatrick comments on Theoretical Physicist Mendel Sachs' Beliefs."

<http://amperefitz.com/quarkspin.htm> "While the electron spin causes magnetism, GRAVITY & INERTIA are caused by the QUARK SPIN."

<http://amperefitz.com/abstract.htm> "ABSTRACT of scalar, standing wave concept."

<http://amperefitz.com/lawrm.htm> "It all begins with this all important science law."

<http://amperefitz.com/energy.htm> "All energy is a form of binding energy."
(science) e-letter by Fitzpatrick.

<http://amperefitz.com/dark.m.e> Why NASA tells us we have 72% Dark Energy,
23% Dark Matter and 4.6% Atoms.

<http://amperefitz.com/gold1.html> More wave and scalar wave questions answered
by Fitzpatrick.

<http://amperefitz.com/fermbos.htm> ELECTRONS are fermions but not when
paired spin up - spin down."

<http://amperefitz.com/bond.strengths.htm> "Sigma Bond strengths in the
microcosm."

<http://www.amperefitz.com/acceleratingexpandinguniverse.htm> "Accelerating,
expanding universe."

<http://amperefitz.com/not.quite.everything.for.a.theory.of.everything.htm> "Not
Quite Everything for a Theory of Everything."

[Schrödinger's Universe](#) **Schrodinger's Universe**

<http://rbduncan.com/why.we.have.gravity.htm> "Why we have GRAVITY and
why we have Centrifugal Force.

<http://amperefitz.com/einsteins.blunder.htm> "Einstein's Biggest Blunder --
Wasn't?"

<http://amperefitz.com/plawrm.htm> "Electrons normally repel BUT . . . " says Dan
Fitzpatrick Jr.

http://www.rbduncan.com/letter_june2004.htm "And Hubble warned us this was
NOT an expanding universe."

<http://www.rbduncan.com/binary.htm> Binary Stars act exactly like Electrons.

<http://rbduncan.com/TOEbyFitzpatrick.htm> A "Theory of Everything" by Daniel
P. Fitzpatrick Jr.

<http://rbduncan.com/boson+.htm> Bosons?

http://www.rbduncan.com/letter_june2004.htm Newton and Einstein only gave us HALF the story.

<http://www.rbduncan.com/mybook.htm> "A New Science Tool" (science) e-book by Fitzpatrick

<http://rbduncan.com/Gspeed.htm> "Speed of Gravity is 9×10^{16} meters per second."

<http://rbduncan.com/phase.coherence.htm> Phase Coherence and the Inverse Square law.

<http://amperefitz.com/lisiimp.htm> "Why Garrett Lisi's Model is so important."

<http://amperefitz.com/ffacts.htm> "Little Known Facts about Well known science Terms" (science) e-book by Fitzpatrick.

[Mach's principle](#)

[Stephen Wolfram](#)

Adobe [pdf links](#) below give you **more important** actual science about what is really going on in our universe.

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<http://amperefitz.com/affenstall.pdf>

"Dan Fitzpatrick comments on Theoretical Physicist Mendel Sachs' Beliefs."

<http://amperefitz.com/answers.to.mendel.pdf>

"Why we have general relativity or why mass increases with speed."

<http://amperefitz.com/why.general.relativity.pdf>

"Fitz answers some Scalar Wave questions."

<http://amperefitz.com/26nov2006.pdf>

"And Hubble warned us this was NOT an expanding universe."

<http://amperefitz.com/lj2004.pdf>

"Ampere really gave us this Relative Motion Law in 1825 for things he knew were moving in the wire (electrons)."

<http://amperefitz.com/relMlaw.pdf>

"Fitz talks about some basic problems in physics." - by Fitzpatrick.

<http://amperefitz.com/3dec2006.pdf>

"Little Known Facts about Well known science Terms" (science) e-book by

Fitzpatrick:

<http://amperefitz.com/ffacts.pdf>

"Lisi's E8 model seems to show us why we get space & time!"

<http://amperefitz.com/e8.pdf>

"Why Garrett Lisi's Model is so important."

<http://amperefitz.com/lisi-important.pdf>

"What Dr. Milo Wolff says connects with what A. G. Lisi is showing."

<http://amperefitz.com/a.g.lisi.pdf>

A radioman sees us all as radios tuned in to this universe.

<http://amperefitz.com/noaether.pdf>

WHEN DID YOU PUBLISH "Out-of-phase waves give us space and repulsive force."

<http://amperefitz.com/4apr04caroline.pdf>

But then Caroline - from Cambridge - repudiated what she had discovered: one of the most important scientific discoveries EVER MADE! Incredible! Simply Incredible!

<http://amperefitz.com/Carolines.pdf>

"Why we have GRAVITY."

<http://amperefitz.com/why.we.have.gravity.pdf>

"Speed of Gravity is 9×10^{16} meters per second."

<http://amperefitz.com/Gspeed.pdf>

"Einstein's Principle of Equivalence or why gravity acts like acceleration."

<http://amperefitz.com/principle.of.equivalence.pdf>

Is Saul Perlmutter explaining the reason for us having the principle of equivalence?

<http://amperefitz.com/saultony.pdf>

"It's understanding the Binding Energy Curve" says Dan Fitzpatrick Jr.

<http://amperefitz.com/b.e.curve.pdf>

"All energy is a form of binding energy." (science) e-letter by Fitzpatrick.

<http://amperefitz.com/energy.pdf>

"Shedding light on Energy Quanta."

http://amperefitz.com/letter_july2003.pdf

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Daniel P. Fitzpatrick Jr.