

Fitzpatrick's 1966 book showed the
relative motion laws of **A. Ampère** unified the forces.

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know about **Dark Matter** particles - (WIMPs).

This was the way the site --below-- looked many years ago. - - Dan Fitz.

$$E=mc^2$$

"You can't square a speed!" Tom Van Flandern

I congratulated noted astronomer Tom Van Flandern for his latest calculation on the speed of gravity because this now gave me valuable information needed to solve a puzzle Dr. Milo Wolff and I were working on. I tried to get Wolff and Van Flandern to get together on this but to no avail.

I told Tom Van Flandern, "Your calculation that the speed of gravitational attraction is greater than or equal to $2 \times 10^{10}c$ puts it right **up there** — *or even a bit higher* — **up there** in the neighborhood with the speed of light squared". This translated

for the non mathematical reader means, or NASA tells us that, **for a stable universe, gravity travels at least or more than 20 billion times the speed of light.** (That's using American billion, not the English billion.)

This c^2 (*speed of light squared*) is an extremely useful algebraic term.

Van Flandern's reply to me was. "You can't square a speed!"

While this statement of Van Flandern is absolutely true, then how can we accept Einstein's famous formula that energy equals mass times the **speed of light squared** ($E=mc^2$)?

Because we don't really square the speed of light; we can't.

When you measure two sides of a square piece of land and square them to get the square footage of the area, you are changing feet into square feet — *something entirely different*.

So when you square something — you come out with something *entirely different*. So, let's expect something *entirely different* when we square the speed of light.

An amount for this so called "speed of light" is about 300,000 kilometers per second or 300 million meters a second or, as presented in mathematical terms, **3×10^8 meters per second.**

In mathematical terms the speed of light squared would be 9×10^{16} but not *meters per second*. It would have to be something *entirely different*. But this mathematical figure of 9×10^{16} is telling us something important: it's showing what energy is. It may be showing us more than that too.

The speed of light squared would be **less** than Van Flandern's **2 x 10^{10c}** which turns out to be 2 x 10¹⁰ TIMES 3 x 10⁸ meters per second, giving us Van Flandern's **2 x 10^{10c}** which when solved **EQUALS**

6 x 10¹⁸ meters per second. And, this is a larger **number** than c² which is 9 x 10¹⁶ but **not** meters per second.

LOOK AT THESE TWO NUMBERS.

6 x 10¹⁸ meters per second.

and

9 x 10¹⁶ saying something else.

THESE ARE VERY IMPORTANT NUMBERS!

Let's get to the bottom of this. What are these two numbers telling us?

The important thing that I saw was that when you DO square things, then this is exactly the per second/per second mathematical expression for acceleration and **gravity can not be discerned from acceleration**. (Principle of Equivalence)

This was why I congratulated Tom Van Flandern because I knew **he had discovered a speed CLOSER to the speed of gravity for certain**.

But now I had another problem:

Why did the universe see it **exactly** as **c²** but we didn't and we had to fudge factor it a bit?

It took me a few years to figure that one out and when I did, Tom Van Flandern was dead and I couldn't show him that what

he had proved was a million times greater than even he knew because he had shown us how this universe of ours sees this thing we call speed, that is really in the quark spacetime realm where we have *Heisenberg's Uncertainty* to contend with.

And it's not quite the way we see speed so we must use this fudge factor squaring the speed of light whereas the universe doesn't need to because the universe sees speed as a frequency just as in Dr. Milo Wolff's frequency world.

See, you can square a frequency — **getting a perfect harmonic resonance** — but you really can't square a speed. So this universe can and does **properly** square a frequency of the electron spin to give us the spin **harmonic** of the down quark. (what this universe makes us see as speed) to get c^2 .

This, that I published in an earlier paper might show what's happening a bit better:

The reason for using Dr. Milo Wolff's spinning, standing wave hypothesis is, the spin frequency of the down quark is the **square or HARMONIC** of the spin frequency of the electron. This means that while the fastest speed in our realm is the speed of light or 3×10^8 meters per second, the fastest speed in the quark realm — VAN FLANDERN TELLS US — would be 6×10^{18} meters per second. Even though we must deal with *Heisenberg's Uncertainty* herein, THIS IS IMPORTANT.

It's CRYSTAL CLEAR WHY c^2 is IMPORTANT!

c^2 OR 9×10^{16} meters per second. that would appear in our math as the speed of light squared (c^2) — is a **HARMONIC**. A

square can be a **HARMONIC**. The electron spins at a lower **HARMONIC** of a quark spin. It's as simple as that!

Gravity is a quark generated force, because this fast a speed is only available in the quark spacetime realm, and it must be the speed of all quark attractions. All major universities teach their astronomers that the speed of light is far too low a speed for gravity. Astronomers all agree with Newton that gravity acts almost instantly or **at least** at $2 \times 10^{10}c$. Note: *Van Flandern*

<http://www.amperefitz.com/phase.symmetry.htm>

and

<http://www.amperefitz.com/phase.symmetry.pdf>

Thank you,

Daniel P. Fitzpatrick Jr. May 9, 2014

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

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Fitzpatrick's website, since 1996, is: <http://www.amperefitz.com>

Another older website carrying Fitzpatrick's works FREE since 1991 is:
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<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/quarkmspin.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*](#)

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"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>

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

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

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"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

