

SEE, — **HOW** the complexities of **FIELD THEORIES** **HID** from us, the fact that **relative motion** (phase) between all these spinning entities, in the micro & macro universe, gives us **all** the **attractive and repulsive** **Fundamental Forces**.

Oct-29-2018.

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Also, **Field Theories** in Word: <http://rbduncan.com/fieldtheory.doc>

& **Field Theories** in Adobe pdf: <http://rbduncan.com/fieldtheory.pdf> Fitzpatrick's 1966 book showed the **relative motion** laws of **A. Ampère** unified the forces.

[Fitz's first book in 1966](#)

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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 — but not quite — in the neighborhood

with the speed of light squared". This translated for the non mathematical reader means, 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.

Speed is so much distance in a certain time. You can't square a certain distance in a certain time.

But you can square only the distance portion and that's what mathematicians do when they calculate the speed of light squared.

It's a fudge factor calculation and it's a bit wrong but that's the only thing mathematicians can do to get an amount for this so called "speed of light squared" algebraic term.

The speed of light is about 300, 000 kilometers per second or 300 million meters a second or, as presented in mathematical terms,  **$3 \times 10^8$  meters per second.**

In mathematical terms the speed of light squared would be

**more** than Van Flandern's  $2 \times 10^{10}c$ .

If you accept the speed of light squared to be  $9 \times 10^{16}$  meters per second (speed squared) then square the same speed of light in miles per second. The problem you will find then that this is a slower speed than the meters per second speed: **proof you cannot square a speed!**

But 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 the speed of gravity for certain**.

But now I had another problem:

Why did the universe see it **exactly** as  $c^2$  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.

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 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** of the spin frequency of the electron. This means that while the fastest speed in our realm is the speed of light or  **$3 \times 10^8$  meters per second**, the fastest speed in the quark realm — if a speed could be squared — would be  **$9 \times 10^{16}$  meters per second** that would appear in our math as the speed of light squared ( $c^2$ ) — which could possibly also be the speed of gravity???

Gravity is a quark generated force. 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

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Thank you,

Daniel P. Fitzpatrick Jr. May 9, 2014

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