

" **Quanta is derived from spacetime.**" D.P.F Jr.

I wrote a paper a few days ago saying I wished Tom Van Flandern was still alive so I could tell him about something I found, and here today I'm writing a paper about **spacetime** that I wish I could tell Caroline Thompson of Cambridge all about, if she was still here and on the internet.

Herman Minkowski, who was Einstein's teacher, knew about this and had he not died early, could have written a better paper about **spacetime** than I'm writing.

We know energy can neither be created nor destroyed and we also know that energy is always delivered in individual quantum pulses.

In order for your GPS to work and give you your position on this earth then a signal has to go from this earth to those satellites above this earth, where there is less gravity than here on earth: Subsequently time goes faster up there than down here on earth where there is more gravity.

Gravity, we all know from Einstein's general relativity, slows down time.

The thing is, as Minkowski showed us, it is space and time changing **always together** never separate.

Space and time (always) change together giving us places with a different **spacetime**: Hence these energy quanta go back and forth, between us and those satellites, so you can use your GPS unit that tells you exactly where you are, on these many roads you travel.

Here's the basic problem: How do you deliver a quantum of energy here on earth to a satellite where time is going faster?

That problem is solved with **spacetime**: The GPS satellites above the earth, where time is going faster, pick up your GPS signals at a lower frequency than you on earth are sending them because satellite time is going faster than your time on earth.

Lower frequencies, however, have less energy than higher frequencies: For instance, violet light has almost twice the frequency than red light therefore each quantum of violet light energy has almost twice the energy as a quantum of red light.

That satellite receives your GPS signal at a lower frequency (lower energy) than you sent. We know this because we have to set the radio receivers to a lower reception frequency. But won't this (lower frequency, lower energy) lower the energy in that quantum pulse?

NO, even though time is going faster up there the **spacetime** realm up there receives the **same energy** in that quantum

pulse, sent from earth. Thus the resultant energy quantum transmitted exactly equals the quantum of energy received regardless of the change in frequency and regardless of the different **spacetime** realm receiving it.

I've written earlier papers ([some long](#), [some short](#)) showing exactly how all these energy quanta are transmitted and received.

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

and

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

Thank you,

Daniel P. Fitzpatrick Jr. May 11, 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.

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://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

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<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.

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

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

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

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

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

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

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

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

"Shedding light on Energy Quanta."

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