

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.

Field Theories in html: <http://rbduncan.com/fieldtheory.html>

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

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

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

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



Shedding a bit of light on

FORCE Carrying Particles

This important paper, by Fitzpatrick, brought to you **free** by
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We have a fact we can't change and that is "**Energy cannot be created nor destroyed.**" This gives us a major problem believing the currently accepted idea of force carrying particles that simply hang around for eons until they end up ages later either doing something or nothing.

In [phase symmetry](#) they have to make sense and **transfer energy immediately!**

So the concept of the force carrying particle in [phase symmetry](#) changes a bit.

It may change a bit too much for some but that's what keeps happening in science as a few of us attempt to "shed a bit more light" on what is actually going on.

First we have to examine what is really going on if we consider both space and time in transfers of quanta of light energy from a distant star to your eye.

We know it takes almost eight minutes for sunlight to come to your eye from the sun.

Einstein's teacher, Hermann Minkowski, gave us a way to visualize what is really going on. Here's his picture of what is happening:

Minkowski claimed that we could only receive energy from a star if we and the star were on the same space-time light cone. If we were then we would receive an instant energy transfer via a geodesic on that space-time light cone.

When you look into the sky, everything you see there is on your Minkowski light cone, via a geodesic, therefore you can get an instant energy transfer from it to you.

Let's look at this now:

When you look at the sun, you are not seeing the present sun. You are seeing the sun as it was nearly eight minutes ago.

When you look at stars, you are seeing them the way they were years ago: Hence the term "**light years**" when talking about distance to stars.

So as you look at a star then light quanta come to your eyes through both much time and much distance **instantly**.

If this is what you see your force carrying particle doing then **phase symmetry** accepts it — even though **phase symmetry** doesn't really need a force carrying particle concept.

All energy transfers in **phase symmetry** have to be via **in phase** impedance matched attractive **bonds** between spinning pairs.

Impedance matching means that **tiny in phase mass** of the binding pair **has to match** or else there is no bonding or energy transfer.

Even though momentary, these bonds will resemble a sigma chemical bond where a spin up electron is spinning in the same plane with an opposite spin down electron and where a **tiny portion** of their closest sides are **in phase**, thus attracting and bonding them together.

In **phase symmetry** it's the mass of this tiny portion that ends up as the energy quantum in your eye.

Whereas a sigma chemical bond lasts, your eye electron, can now swiftly switch bindings from the star, where it gains inertial mass via going to a higher orbit and then binding with a component in your eye, giving your eye the quantum of energy and losing that quantum of inertial mass by dropping to a lower orbit.

The energy transfer can happen because when both star and eye electrons are bound together, the star **pushes them both up to the higher energy orbit level together**. But the high energy of the star then disrupts the bond: It moves the star electron's spin/orbit plane allowing the eye electron to re-bind back to a component in the eye giving the eye the quantum of energy from the star.

Many electrons in your eye are swiftly doing this over and over again allowing you to see things with your eyes.

This, in fact, is exactly how ALL energy transfers work, moving from a high energy level to a lower energy level.

A quantum of violet light has about twice the energy as a quantum of red light: But whatever the quantum of energy was from the star, that exact same amount of energy also comes into your eye.

Present science sees these quantum energy transfers being done as photons moving from the star to your eye. So this is what a photon really is if you want to believe in force carrying particles. Certain units of energy are definitely moving this way and they are moving *instantaneously from our point of view* and according to the **phase symmetry** concept.

Phase symmetry allows spin up quarks to also bind and transfer energy to spin down quarks the same way electrons do. **Phase symmetry** also shows us that since these quarks that bond and transfer energy, spin at the square of the electron frequency, these energy quanta will be much, much higher than those from electrons. You can't call these photons however:

But if you insist in believing in force carrying particles you could indeed call one of these quark to quark transfers of energy a Higgs boson.

Sunday, January 18th 2015 [DPFJr](#)

p.s.

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And then read:

[Phase symmetry makes quantum theory more complete. 12-02-2013](#)

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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>

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<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?

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<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](#)

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"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:

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

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

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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."

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Daniel P. Fitzpatrick Jr.