

Determining mass via SCATTERING

The problem with determining quark mass via scattering (*the only way we presently can obtain quark mass*) is that we get the **reverse** of what we should.

For instance: the proton is composed of two up quarks and one down quark.

Via scattering, an up quark shows a mass of $0.004 \text{ GeV}/c^2$.

Via scattering, a down quark shows a mass of $0.008 \text{ GeV}/c^2$.

Yet the proton that is composed of two up quarks and one down quark has more than fifty times the mass of all three or $0.938 \text{ GeV}/c^2$.

This is an impossibility because the strong force binding energy equivalent in mass subtracted from the combined mass of the three quarks, *as unbound individuals*, must exactly equal the mass of the proton. It doesn't. In fact, we get an entire **reversal** of what we should have.

Scientists are puzzled, therefore, by these extremely low mass indications for the up and down quarks that build both the proton and neutron.

An **answer** to this would be that the different quarks have at least two different spin frequencies and these spin frequencies -- when they appear near the proton's (or neutron's) radius -- combine to form a much lower harmonic frequency that is the same as the electron spin frequency.

Not only would this **answer** solve the problem of these low mass readings but it would also show us the reason for the quantity c^2 .

Would it also give us what Einstein searched for -- the frequency of gravity?

For more about all this see: <http://www.amperefitz.com/assymfree.htm>

Be sure to read: <http://www.amperefitz.com/acceleratingexpandinguniverse.htm>

See this short, clear picture: <http://www.amperefitz.com/principle-of-equivalence.htm>

Also <http://www.amperefitz.com/aphaseuniverse.htm>

And <http://www.rbduncan.com/schrod.htm>

There's a lot more too.

And this you can find out by buying my latest book *Universities Asleep at the Switch* at Amazon.com or by reading it FREE simply by clicking the following links:

<http://www.amperefitz.com/unvasleep.htm> (This link is faster if you have dial up.)

http://www.amperefitz.com/ua_20071020_ck_ds_jm_ds.pdf (This is the book FREE in Adobe.)

Over 4 Decades of Fitzpatrick's Books, Papers & Thoughts <http://www.amperefitz.com/4.decades.htm>

Web pages are at: <http://www.amperefitz.com> & <http://www.rbduncan.com>

Thanks for reading this. Let me know what YOU think. e-mail is Thlnker@indiainfo.com

This page can be copied and published by anyone as long as it is copied and published in its entirety.

February 16, 2010

[Daniel P. Fitzpatrick Jr.](#)

[Over 4 Decades of Daniel P. Fitzpatrick's Books, Papers and Thoughts](#)

