

## Re: Do Neutrinos Have Spin?

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics/2005-06/msg00006.html>

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- *From:* "Ross A. Finlayson" <[raf@xxxxxxxxxxxxxxxxxx](mailto:raf@xxxxxxxxxxxxxxxxxx)>
  - *Date:* 31 May 2005 16:10:19 -0700
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Oh, it does say  $\text{GeV}/c^2$ . I wonder how I could have misread that.

So, people are positing the graviton to have spin 2.

Are quarks indivisible? Why not, if not? Remember, the atom used to be indivisible.

Are there any metrics of particles that when equipment increases in precision, grow smaller or larger? That is, if you were measuring something about a quark, or other known particle, does the experimental value or its reciprocal diverge as technology to observe them increases in precision? The universe's apparent size appears to be that way over time.

That's about infinitesimals, I'm trying to understand particles in terms of infinitesimals instead of Planck, the discrete and continuous etcetera. If you know of things for which that is true, I'm interested in hearing about that.

That [particleadventure.org](http://particleadventure.org) is a cool site, its precursor was one of the first, and best, places to learn about the Standard Model on the Internet. That's partially because the information contained there was discovered muchly in the last forty years or so.

<http://www.google.com/search?q=quark+discovery+history>

That's longer than I've been alive.

In the [particleadventure.org](http://particleadventure.org) chart, it lists spin for fermions as  $1/2$ ,  $3/2$ ,  $5/2$ , ..., and for bosons as 0, 1, 2, .... Why is that inductive sequence ellided? What fantastic particle has spin 99?

So, things with half-spin, or  $1\ 1/2$  or  $2\ 1/2$  spin, obey Fermi's rules. That reminds me of passive electrical components that obey Ohm's and Kirchoff's laws, I forget. The Fermionic particles, or fermions, they are all hadrons?

So how do I snip a gluon and let it shoot off like a rubber band? I want a gluon gun like Half-Life, the video game. Ha ha ha. (ha ha

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ha... haanson! That guy cracks me up when isn't being serious.) I'd like to order a gluon splitter for my inertial capacitor.

Hey, thanks you guys, I have read your posts and respect your opinion(s). I might have some more questions. I think Clifford algebra is the way to go to understand most applications of physics. Unfortunately I do not yet understand Clifford algebra, eg Cl\_3, or Cl\_3,1 or Cl\_3,2, so fortunately I study Pertti Lounesto's "Clifford algebras and spinors", which I understand he heartily recommends, in theory.

There can be, only one, theory.

The particle: it's a wave.

Have a nice day,

Ross F.

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- ***Follow-Ups:***

- ◆ ***Re: Do Neutrinos Have Spin?***

- ◆ *From:* Bjoern Feuerbacher

- Prev by Date: ***Re: Time is an illusion***
- Next by Date: ***Re: Time is an illusion***
- Previous by thread: ***Re: Time is an illusion***
- Next by thread: ***Re: Do Neutrinos Have Spin?***
- Index(es):
  - ◆ ***Date***
  - ◆ ***Thread***