

Re: Atoms exist inside Spacetime..

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- *From:* "Chris" <me@xxxxxxxxxxx>
 - *Date:* Thu, 11 Jan 2007 10:15:59 GMT
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Rubbish! quarks don't exist I just made them up for a joke.

I prefer scotch eggs myself.

"Quantum Ranger" <paul.valletta@xxxxxxxxxxxxx> wrote in message
news:1168322266.569615.243020@xx

jambaugh wrote:

Quantum Ranger wrote:

So is the converse true, does spacetime exist within
Atoms?..or is
there a difined limit?

What do you mean by "space-time existing"? If you think of space-time as being the system of relationships between atoms and other objects then it is not "a thing which exists" but rather a systematic description of relationships between things. You may as well ask if momentum space exists, or the hilbert spaces of QM, or the number pi. They are all conceptual objects not physical objects. I posit so too is space-time.

You are course correct, my posting which I now realize should have just stipulated the product of just "space", and of course the answer would have to be Yes.

Products inside of atoms have motion, they have to have trancend through a space/volume , in order that they are not detected?

At what level (discrete/seperation) does spacetime lose its systematic ability to describe non hidden objects?

I can reduce an Orange down to its component Atoms, I can reduce an Atom down to its componant Quarks. But what I cannot do is Separate a

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single Quark away from it's nearest neighbouring products?

I am asking, at what level does reduction cease, and separation become's the relative discription?