

Re: Relativity question

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RP <no_mail_no_spam@yahoo.com> wrote in
news:3ado27F6ag1a9U1@individual.net:

>> *I have discussed your conjecture with one of the professors that works
>> with electron beams. He is interested in testing the idea. I will let
>> you know what results we get if he can get some time to test the idea.*
>
> *That's just friggin fantastic! If it goes, and goes well, then I've
> got a few other experiments in mind.*
>
>

one question that came up in our discussion:

Since electrons have electrostatic charges and repel each other, how can a beam of electrons stay together without their mutual magnetic fields drawing them together?

The expression of electrostatic charge is NOT dependent on motion, is it?

I suspect that a beam of electrons is always oscillating about the axis of motion as the electrons are pulled toward each other and then veer off due to range repulsion.

It will be very interesting to see if a beam of electrons has a magnetic field, even when there is no external magnetic field applied.

What about a bunch of electrons caught in a magnetic trap and cooled? I remember something about such an experiment.

Ah yes, here is an interesting experiment, not what I was looking for but interesting anyway:

<http://www.europhysicsnews.com/full/18/article2/article2.html>

[interesting quote]

Thus the electron spends less than no time in the vicinity of the scattering centre. This "hole in quantum space" may be thought of as representing the destructive interference of the incoming and scattered

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outgoing s-waves, a quantum hop of matter from one position to another, the matter disappearing from one side of the scattering centre and reappearing at the other in a process of nanoscopic matter-wave teleportation. [unquote]

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bz

please pardon my infinite ignorance, the set-of-things-I-do-not-know is an infinite set.

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