

Re: What does quark mass mean?

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From: Oz (Oz_at_farmeroz.port995.com)

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FrediFizzx <fredifizzx@hotmail.com> writes

>How could the electrostatic energy be considered part of the mass when
>it extends out to very far away from an electron? How could this lead
>to even the classical electron radius? $r = e^2/(m_e*c^2)$ definitely has
>to be a rough approach. I think for the mass of an electron, we have to
>think outside of the point-like particle though. Plus, mass should
>necessarily occupy a volume of space.

I'm not quite sure precisely what you mean by 'mass should necessarily occupy a volume of space'.

Do you mean this in the sense of 'completely occupy'?

If that is the case then I cannot agree. Photons in a box, and even elastic (or electric) energy in a body is diffuse and spread throughout the body. So I conclude that 'mass fields' can and do intersect.

So as far as I can see the mass of an electron can indeed be distributed over all of space. Certainly it need not be, and almost certainly is not, at a specific point in space.

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Oz

This post is worth absolutely nothing and is probably fallacious.
Use oz@farmeroz.port995.com [ozacoohdb@despammed.com functions].
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