

Re: dirac equation in curved spacetime

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On Sep 16, 1:11 pm, vivishek <vivishek.sud...@xxxxxxxxxx> wrote:

Is there a single, well-accepted form of the dirac equation for a free particle in curved spacetime? If not, what are the various possibilities constructed so far?

One possibility is the real gravitational Dirac equation. It's the same as the matrix version with a bit more geometry. It's called real because because the uninterpreted scalar i is replaced with an associative product of ortho-normal vectors See Spacetime Geometry with Geometric Calculus at <http://modelingnts.la.asu.edu/html/GCgravity.html> and go to equation (120)

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