

Re: GRAVITATION

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- *From:* srp <srp2@xxxxxxxxxxxxxxxxxxxx>
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Phineas T Puddleduck a écrit :

In article <449ED623.7020502@xxxxxxxxxxxxxxxxxxxx>, srp <srp2@xxxxxxxxxxxxxxxxxxxx> wrote:

You say that "I chose". What choice was there really. Gamow explained how G is structured from the Solar system parameters, so he chose it for me. The mean radius of the Earth orbit and Earth year being inconsistent with the Bohr radius, and Bohr ground state frequency, what choice did I have really but to size G down to proper scale if I wanted to use it with the hydrogen atom. Isn't getting the correct force a tell-tale that the move was not that bold ? And isn't getting the fundamental $F=ma$ from both the Coulomb equation and the gravitational equation another tell-tale that the classical equation set is consistent?

My unease is the implied discontinuity in G at some scale inbetween the two. If you say G has a different value at hydrogen-atom scale, compared to the solar system scale – then there is either a discontinuity or a progressive change.

My opinion is that there is discontinuity. From my analysis, a specific G needs to be calculated for each orbiting system considered. Not implying that some general approximate G could not be usable for approximate results on similar systems.

To be further analyzed and experimented for to finally clarify.

Agreed it seems a way of "unifying" (for want of a better word) EM and gravity but I still feel an unease about it.

Admittedly I do tend to shave close with Occam occasionally, so you may ignore me ;–)

Re: GRAVITATION

I ignore no input. If anything can be coherently integrated, and if (or when, mostly) I see how, I integrate.

I agree you got those equations, but I'm unconvinced as to whether the initial step you made is valid (to me, again my opinion yada yada!).

Oh but these are not my "initial step" by any stretch of the imagination. Just a little in context explanation I offered the OP for him to see why I thought G could not be mixed up with the Coulomb equation as he was attempting.

Whether it was fortuitous or not is as of yet uncertain to me – but thanks for answering my questions.

I generally meet civil behavior with civil behavior in return.

André Michaud

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