

# Re: GRAVITATION

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- *From:* srp <srp2@xxxxxxxxxxxxxxxxxxxx>
  - *Date:* Sun, 25 Jun 2006 18:44:10 GMT
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Phineas T Puddleduck a écrit :

In article <449EBEFE.90805@xxxxxxxxxxxxxxxxxxxx>, srp <srp2@xxxxxxxxxxxxxxxxxxxx> wrote:

Phineas T Puddleduck a écrit :

In article <449E9060.2040505@xxxxxxxxxxxxxxxxxxxx>, srp <srp2@xxxxxxxxxxxxxxxxxxxx> wrote:

This means that if you want to use G in the hydrogen atom, you have to recalculate G with values that are meaningful to the hydrogen atom, and which are

$$r = \text{Bohr radius} = 5.291772083E-11 \text{ m}$$

$$M = \text{mass of the proton} = 1.67262158E-27 \text{ kg}$$

and from the frequency of the Bohr ground state energy ( $f = 6.57968391E15 \text{ Hz}$ ) you can calculate T

$$T = 1/\text{frequency} = 1.519829851E-16 \text{ s}$$

If you recalculate G for the hydrogen atom, you get

$$G = (4 \pi^2 r^3)/(M T^2) = 1.514172983E29$$

Following this on logically, are you saying G is a function of scale?

This is the bit I can't agree with.

Re: GRAVITATION

I assume nothing at all.

I just apply the logical parameters that G was defined from.  
Ref Georges Gamow "GRAVITY"

From that definition, G turns out not to be a constant at all.

Or else, maybe you can put a finger for me on where the mathematical sequence is not proper.

André Michaud

I'm just unhappy with that – as you've said, in this fashion G is not constant. That's the bit I am not happy with.

I do understand how difficult it is to re-question stuff that supports models that we have come to find thoroughly consistent.

Why do I understand ?

Because faced with the out of focus lot of conflicting theories, and the fact that there exists only one coherent physical reality, I concluded that there was no way out except to hacksaw off all of my certainties, and rebuild from the smallest set of verified data. The hardest of all things to do.

My opinion was and still is that it's the price that must be paid by any individual who wants to be part of the solution.

André Michaud

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