Whoa!! What a Coincidence!!

Eric Louis Beaubien
X @el_beaubien
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Abstract

I was just about floored when I did this meaningless calculation and wondered if anyone else had seen it before or anything even remotely like it. It has no physical significance as far as I can tell … but … wow …

I had occasion to deal with this ratio of constants. They are supposed to go with other variable numbers in an equation that I'm interested in. So, I put all the constants that won't change into one number to facilitate ease of iterative computation. Just this:

$$\frac{e^2}{4\pi\varepsilon_0 c^2} = \text{a constant} = \frac{2.5669699665\text{e-}38}{10{,}000{,}000.0013322} = 2.56696996619\text{e-}45$$

What is that ?

Clearly, this cannot be meaningful as a technical physics/mathematics device. **'π'** is not a number dependent on human convention as is the speed of light (c). There is no logical correspondence between π and meters. Pi is a *"mathematical"* whereas the meter is just the length of some king's body part (arm or leg or something like that). And why would π 'care' about base 10 anyway?

It is literally accurate to 1.3 parts per 10 billion. That's a stack of copy paper 631 miles high (way past orbiting satellites) and being 1.3 sheets too many. Yet, it is scientifically meaningless.

I rechecked my numbers with NIST codata … and recalculated … again … again … yup.

NIST current values:

4π x ε_0 **(8.854 187 8188 x 10-12)** x $\mathbf{c^2}$ **$(299{,}792{,}458)^2$**

= 10,000,000.0013322623980

Conclusions

No conclusion is possible. It is meaningless … hmmm …

Question: Can anyone top this numeric coincidence in any other scientific venue?

References

NIST codata 2022

"Neutron Compton Wavelength as a Composite Electron-Proton Close Orbital" – E.Beaubien
viXra:2507.0122 : v2 Nuclear and Atomic Physics