

**True Planck Units**

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Planck units are wrong because we can't mix the macroscopic gravitational constant with other microscopic units. Planck scale is a myth.

If we change the gravitational constant by the value for the electron everything works fine.

$$G = 6.67 \times 10^{-11} \quad \rightarrow \quad G_e = \frac{q_e^2}{4\pi\epsilon_0 m_e^2} = 2.78 \times 10^{32}$$

Vacuum energy particle:

$$E = \left( \frac{\epsilon_0}{\mu_0} \right)^2 = 310 \text{ MeV}$$

$$m = \sqrt{\frac{137\pi \cdot h \cdot c}{G_e}} = 5.53 \times 10^{-28} \text{ kg}$$

$$x = \sqrt{\frac{h G_e}{137\pi \cdot c^3}} = 4 \times 10^{-15} \text{ m}$$

$$t = \sqrt{\frac{h G_e}{137\pi \cdot c^5}} = 1.33 \times 10^{-23} \text{ s}$$

Electron charge:

$$q_e = \sqrt{\frac{2G_e \epsilon_0}{137^2 \pi}} m = 1.6 \times 10^{-19}$$

Electron mass:

$$m_e = \sqrt{\frac{hc}{2 \times 137\pi \cdot G_e}} = 9.1 \times 10^{-31}$$

$$G_0 = \frac{q_e^2}{4\pi\epsilon_0 m^2} = 7.56 \times 10^{26}$$

$$\frac{G_e}{G_0} = 2 \times 137^2 \pi^2$$

$$\frac{E}{E_e} = \frac{310}{0.51} = \sqrt{2}\pi 137$$