

Electron's mass and Golden ratio

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In the following formulae, ϕ (Golden ratio) has got a dimension of Time (in seconds)

Electron's mass:

$$m_e = \frac{2h}{\phi \times 10^{-20} \times c^2} = 9,112 \times 10^{-31} \text{ Kg (official value} = 9,109 \times 10^{-31} \text{ Kg)}$$

Electron's Compton wavelength:

$$\lambda_e = \frac{\phi \times 10^{-20} \times c}{2} = 2,4253 \times 10^{-12} \text{ m (official value} = 2,4263 \times 10^{-12} \text{ m)}$$

Electron's Compton frequency:

$$v_e = \frac{c}{\lambda_e} = \frac{2}{\phi \times 10^{-20}} = 1,2360 \times 10^{20} \text{ Hertz (official value} = 1,2356 \times 10^{20} \text{ Hertz)}$$

Electron's energy:

$$E_e = m_e c^2 = h v_e = \frac{2h}{\phi \times 10^{-20}} = \frac{2 \times 6,626 \times 10^{-34}}{\phi \times 10^{-20}} = 8,190 \times 10^{-14} \text{ Joules (Official value} = 8,186 \times 10^{-14} \text{ Joules)}$$