

New Particle
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We found a new particle that is the quantum of the vacuum and its energy is equal to the potential energy of the particle in the gravitational field of the universe. Several experiments show a missing mass precisely equal to 310 MeV.

$$E_0 = \left(\frac{\epsilon_0}{\mu_0} \right)^2 = 310 \text{ MeV}$$

ϵ_0 = Vacuum permittivity; μ_0 = Vacuum permeability

Gravitational potential energy:

$$E_0 = \frac{GM_U m_0}{R_U}$$

G – Gravitational constant; M_U = mass of our universe

R_U = Radius of our universe (we leave at the surface of our universe)

$$E_0 = hf_0 ; \quad f_0 = 7.5 \times 10^{22} \text{ Hz}$$

$$m_0 = \frac{hf_0}{c^2} = 5.5 \times 10^{-28} \text{ kg}$$

Those properties prove the relation between electromagnetism and gravity.