

The end of the units

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See Unified Absolute Relativity Theory at:

www.wbabin.net/saraiva/saraiva305.pdf
www.wbabin.net/saraiva/saraiva306.pdf
www.wbabin.net/saraiva/saraiva307.pdf
www.wbabin.net/saraiva/saraiva328.pdf
www.wbabin.net/stham/saraiva347.pdf

Number of the sun neutrinos:

$$n = \frac{1}{q_m} = 4.836 \times 10^{14} m^{-2} s^{-1} ; \quad q_m = \frac{h}{2q_e}$$

We detect only n/2 because the neutrinos come as Cooper-pairs.

q_m -- Magnetic charge; q_e -- Electric charge; h – Planck constant.

Number density:

$$\rho_v = \frac{1}{q_m c} = 1.613 \times 10^6 m^{-3} ; \quad c - \text{Light speed}$$

Vacuum permeability (inverse density):

$$\mu_0 = 2q_m c = \frac{hc}{q_e} \quad (\text{The units are wrong})$$

The magnetism at the earth is commanded by the sun neutrinos.

Number of electrons in vacuum:

$$\rho_e = \rho_v \frac{137}{4} = 5.53 \times 10^7 m^{-3}$$

$$\rho_e^{1/3} = 380.9 m^{-1}$$

Distance between the electrons:

$$x = \frac{1}{380.9} = 2.63 \times 10^{-3} m$$

Cosmic background:

$$T = 2.725K ; \quad E = k_B T = \frac{hc}{\lambda}$$

$$x = \frac{\lambda}{2}$$

$$\varepsilon_0 = \frac{x}{c} \quad (\text{The units are wrong})$$

T – Temperature; k_B -- Boltzmann constant; ε_0 -- Vacuum permittivity.

Magnetic dipole moment of the electron:

$$MDM_e = q_m \frac{k_B}{x_e} = 1.1 \times 10^{-26}$$

$$MDM_e = \frac{m_e}{G_0} ; \quad G_0 = \frac{2q_e^2}{h}$$

$$m_e = \frac{q_e k_B}{x_e}$$

Magnetic dipole moment of the neutrino:

$$MDM_\nu = q_m \sqrt{S} = 2.77 \times 10^{-32} ; \quad S = 1.9 \times 10^{-34} m^2$$

$$m_\nu = q_e \sqrt{S} = 2.2 \times 10^{-36} kg$$

$$\frac{m_\nu}{MDM_\nu} = G_0 ; \quad \frac{m_e}{m_\nu} = \frac{MDM_e}{MDM_\nu} = \frac{1}{2\pi\alpha^3}$$

k_B -- Boltzmann constant; x_e -- Electron wavelength; m_e -- Electron mass;

m_ν -- Neutrino mass; G_0 -- Conductance quantum; α -- Fine structure constant;

$i\sqrt{S}$ = Neutrino Compton wavelength.

Vacuum impedance:

$$Z_0 = \frac{4q_m}{137q_e}$$

Magnetic resistance:

$$R_M = 1/R_E ; \quad R_E \text{ -- Electric resistance.}$$