

Magnetic force between monopoles

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See the censored 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

www.wbabin.net/stham/saraiva366.pdf

www.wbabin.net/stham/saraiva395.pdf

Force:

$$F = \frac{q_m q_m}{\mu_0 R^2} ; \quad q_m = BA$$

$$F = \frac{B^2 A^2}{\mu_0 R^2}$$

$$F = q_m \frac{q_m}{\mu_0 R^2} = q_m H$$

Energy:

$$E = q_m \frac{q_m}{\mu_0 R} = q_m V_M = q_m I_E$$

$$q_m = I_E \mu_0 R = BA$$

Maxwell formula:

$$F = \frac{B^2 A}{2\mu_0} \quad \Leftrightarrow \quad F = \frac{B^2 A}{\mu_0} \frac{A}{2R^2}$$

q_m -- Magnetic charge or flux; μ_0 -- Vacuum permeability; R – Distance;
 B – Magnetic field; A – Area; H – Magnetic field strength; V_M -- Magnetic voltage;
 I_E -- Electric current.

Electron energy minimum:

$$E_k = \frac{m_e c^2}{2N^2} ; \quad E_p = \frac{2q_m q_e c}{Nx_e} ; \quad N = 1$$

$$E = E_k - E_p = m_e c^2$$

$$E = \frac{m_e c^2}{2N^2} - \frac{2q_m q_e c}{Nx_e}$$

$$\frac{dE}{dN} = -\frac{m_e c^2}{N^3} + \frac{2q_m q_e c}{x_e N^2} = 0$$

$$\Leftrightarrow N = \frac{m_e c^2 x_e}{2q_m q_e c} = \frac{m_e c^2 x_e}{hc} = 1$$

m_e -- Electron mass; c -- Light speed; q_e -- Electron charge; x_e -- Compton wavelength; h -- Planck constant.

Matter faster than light

There's no speed limit. Only if the energy of acceleration comes from another frame. A spaceship with its own energy can reach any speed.

About half of all active quasars have superluminal jets. For this motion to be an illusion the jets must have a maximum angle of 20°.

Number of quasars = 0.5

$$\text{Jet orientation probability} = \frac{20}{180} = 0.1$$

0.4 of all motions must be true superluminal motion. And it's logic because the orbital speed of the matter at the black hole is light speed and it's more accelerated.