

Magnetic charge in air

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See the 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

Magnetic charge quantum:

$$q_m = \frac{h}{2q_e} = 2.07 \times 10^{-15} \text{ Weber}$$

The electric resistance of the air is very high so the magnetic charge is very low, so the magnetic voltage and charge are also very low.

Electric resistance of the air:

$$R_E = 4 \times 10^{13} \Omega ; \quad R_M = \frac{1}{R_E}$$

Magnetic voltage:

$$V_M = R_M I_M = \frac{V_E}{R_E}$$

$$V_M = \frac{q_m}{\mu_0 D} \Leftrightarrow q_m = \mu_0 D \frac{V_E}{R_E}$$

Electric voltage:

$$V_E = \frac{q_e}{4\pi\epsilon_0 D} \Leftrightarrow q_m = \frac{\mu_0 q_e}{4\pi\epsilon_0 R_E}$$

Magnetic charge:

$$q_m \approx \frac{q_{m0}}{R_E} \Leftrightarrow$$

$$\Leftrightarrow q_{mAIR} = 5 \times 10^{-29} \text{ Weber}$$

Magnetic field in a Squid:

$$B_{AIR} = 2.5 \times 10^{-18} T$$

Limit of a squid:

$$B = 5 \times 10^{-18} T$$

So, it's impossible to detect a magnetic charge in the air.