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# 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:

$$q_m = \frac{h}{2q_e} = 2.07\times10^{-15} Weber$$

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:

$$R_E = 4\times10^{13}\,\Omega\ ; \qquad R_M = \frac{1}{R_E}$$

Magnetic voltage:

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

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

Electric voltage:

$$V_E = \frac{q_e}{4\pi\varepsilon_0 D} \quad \Leftrightarrow \quad q_m = \frac{\mu_0 q_e}{4\pi\varepsilon_0 R_E}$$

Magnetic charge:

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

$$\Leftrightarrow \quad q_{mAIR} = 5\times10^{-29} Weber$$

Magnetic field in a Squid:

$$B_{AIR} = 2.5\times10^{-18} T$$

Limit of a squid:

$$B = 5\times10^{-18} T$$

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