



**HEP 2013
Stockholm
18-24 July 2013**



Contribution ID: 106

Type: **Talk presentation**

Search for Magnetic Monopoles in Volcanic Rock

Friday, 19 July 2013 12:30 (12 minutes)

A direct search for relic monopoles has been made with a SQUID-based magnetometer using volcanic rock samples from the Arctic and Antarctic regions. Relic monopoles would have drifted due to the Earth's internal magnetic field. Enhanced monopole concentrations would therefore occur in the geomagnetic poles, thereby suppressing the sensitivity of previous matter searches. This search was sensitive to monopoles carrying the Dirac charge and with masses up to 10^{13} GeV.

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Session Classification: Higgs and New Physics

Track Classification: Higgs and New Physics