

Global network of optical magnetometers for exotic physics search

Wednesday 20 June 2018 12:00 (5 minutes)

The global network of optical magnetometers for exotic physics search (GNOME) is currently being set-up internationally. More than 10 highly-sensitive, shielded magnetometers are synchronized via GPS and look for global transient spin-interacting events as a signature for new physics. As a model we consider interactions with axion-like particle domain walls that transverse the Earth.

We present the network, discuss its characterization and demonstrate some data Analysis techniques of the recent scientific runs.

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Session Classification: Plenary short presentations