

Sidereal Variations observed Deep Underground in Tasmania

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Muon detectors have been in operation at the Poatina underground power station (depth \sim 350 mwe below surface) in Tasmania since 1972. A persistent sidereal variation, magnitude of order 0.07% with maximum in the early hours of the sidereal day, has been observed throughout the observational period. Some changes are observed related to IMF direction and solar polarity.

Keywords: Cosmic Ray; Sidereal; Solar Polarity; Solar Cycle.