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MINOS Cosmic Muon Results

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When high energy cosmic rays interact in the stratosphere, mesons are produced in the primary hadronic interactions. The MINOS experiment detects cosmic ray produced muons using two magnetized detectors at underground depths of 220 and 2080 mwe. The muon charge ratio and the variation of muon intensity with atmospheric temperature are used to obtain information on meson production by the primary cosmic rays in the atmosphere. The ratios of positive to negative pions, positive to negative kaons, and charged kaons to pions are obtained.

Primary author: Prof. SCHREINER, Philip (Benedictine University)

Presenter: Prof. SCHREINER, Philip (Benedictine University)

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