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Relative Energy Calibration of the MINOS Detectors

The MINOS experiment makes precision measurement of the atmospheric neutrino mixing parameters using neutrinos at the Main Injector(NuMI) and by employing two detectors separated by long base line. The normalized energy response at the each detector is obtained by a comprehensive calibration procedure to correct for the detector affects using cosmic ray muons . As part of the calibration procedure we measure the energy response in Muon Energy Unit(MEU). Measurement of detectors response to stopping muons of a given track length provides a simple technique of performing the inter-detector calibration.This poster will explain how to select and use cosmic muon for MINOS relative energy calibration.

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