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MINERvA Neutrino Detector Calibration

Thursday, October 25, 2012 6:00 PM (1h 30m)

Current and future neutrino oscillation experiments depend on precise knowledge of neutrino-nucleus cross-sections. MINERvA is a neutrino scattering experiment at Fermilab, studying the interactions of muon neutrinos and antineutrinos with various nuclear targets. In order to make these measurements, it is vital that we carefully calibrate our detector. This poster explains the various in situ calibration techniques and cross-checks used by MINERvA to convert our electronics output to absolute energy deposition values.

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