Contribution ID: **366** Type: **Poster**

Calibration of Antineutrino Detectors at Daya Bay

The Daya Bay experiment aims to provide the most precise measurement of the mixing angle theta13 and the mass-squared difference dm^2_ee. The experiment consists of eight functionally identical antineutrino detectors deployed in three experimental halls at different baselines from three groups of nuclear reactors. The calibration of the various aspects of the detector response is an essential ingredient for reducing and quantifying the relative systematic uncertainties. Various calibration methods, relying on radioactive sources and in-situ data, will be presented.

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Track Classification: Reactor Neutrino Oscillations