Poster session 2 – Tuesday 5 July

P2.059 **Energy response model of the Daya Bay experiment**

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on behalf of Daya Bay collaboration

The Daya Bay reactor neutrino experiment has made the most precise measurement of neutrino oscillation parameter $\sin^2 2\theta_{13}$ as well as the first direct measurement of effective mass-squared difference $|\Delta m^2_{ee}|$ through the analyses of reactor antineutrino rate and spectral shape. Precise measurements of reactor antineutrino spectrum require an accurate understanding of the detector energy response. We developed an energy response model of the antineutrino detector using various in-situ calibrations and external measurements. The poster will present details of the energy response model that is used in the latest results from the Daya Bay experiment.