



Poster session 2 – Tuesday 5 July

P2.062 Improved measurement of reactor antineutrino flux and spectrum at Daya Bay

L Zhan

Institute of High Energy Physics, China

on behalf of Daya Bay collaboration

The poster presents the latest results on the measurement of the reactor antineutrino flux and spectrum at Daya Bay. The antineutrinos were generated by six nuclear reactors with 2.9 GW nominal thermal power and detected by eight antineutrino detectors deployed in two near and one far underground experimental halls. The Inverse beta decay reaction yield was measured and compared with the reactor flux predictions. A deviation in the measured positron prompt energy spectrum was found with the comparison to the reactor flux predictions. In particular, an excess of events in the region of 4-6 MeV was revealed and characterized. A reactor antineutrino spectrum of IBD reactions is extracted for model-independent predictions.