



Tuesday 5 July, 09:20 – 09:45

Session 5: Reactor neutrinos

Status of the Daya Bay experiment

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The Daya Bay Reactor Neutrino Experiment consists of eight functionally identical detectors placed underground at different baselines from three groups of nuclear reactors in China. Since Dec. 2011, the experiment has been running stably for more than 4 years, and has collected the largest reactor anti-neutrino sample to date. The latest measurements of $\sin^2 2\theta_{13}$ and the effective mass splitting $|\Delta M_{ee}|^2$, as well as an independent oscillation analysis based on an anti-neutrino sample tagged via neutron capture on hydrogen, will be reported. This talk will also present the latest status concerning searches for new physics and the measurement of the absolute reactor neutrino flux and spectrum, among other topics.