

Daya Bay Reactor Antineutrino Experiment (presented by Jiajie Ling)

Thursday, September 12, 2013 2:00 PM (20 minutes)

The neutrino mixing angle θ_{13} is the gateway to study CP violation and determines the trend of future neutrino experiments. The Daya Bay Reactor Antineutrino Experiment is designed to measure θ_{13} with a sensitivity of $\sin^2(2\theta_{13}) < 0.01$ at 90% C.L., utilizing multiple identical detectors placed underground at different baselines to minimize systematic errors and suppress cosmogenic backgrounds. The experiment published the latest result of $\sin^2(2\theta_{13}) = 0.089 \pm 0.010(\text{stat.}) \pm 0.005(\text{syst.})$ from six antineutrino detectors collected data. An overview and result will be presented in this talk.

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