

# Daya Bay Reactor Antineutrino Experiment (presented by Jiajie Ling)

*Thursday, 12 September 2013 14:00 (20 minutes)*

The neutrino mixing angle  $\theta_{13}$  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  $\theta_{13}$  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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