

Recent results of Daya Bay Reactor Neutrino Experiment

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The Daya Bay Reactor Neutrino Experiment utilizes three pairs of powerful nuclear reactors as anti-neutrino sources, and employs eight functionally identical detectors with large target volume for near-far relative measurement. The detectors were placed underground with mountains to provide enough shielding for cosmic rays induced background reduction.

Now, the experiment has achieved unprecedented precision in measuring θ_{13} and the neutrino mass squared difference $|\Delta m^2_{ee}|$. The experiment can also perform a high-statistics determination of the absolute reactor antineutrino flux and spectrum, as well as a search for light sterile neutrino. An overview and the most recent results from Daya Bay will be presented.

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