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The latest results from the Daya Bay Reactor Neutrino Experiment

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The Daya Bay Reactor Neutrino Experiment, located in South China, is one of the current generation short-baseline reactor neutrino experiments which have measured the neutrino mixing angle θ_{13} value successfully. Utilizing six powerful nuclear reactors as antineutrino sources, and eight functionally identical underground detectors for a near-far relative measurement, Daya Bay has achieved unprecedented precision in measuring the mixing angle θ_{13} and the mass-squared difference $|\Delta m^2_{ee}|$. With a growing dataset that constitutes the largest sample of reactor antineutrino interactions ever collected to date, Daya Bay is also able to perform a number of other measurements in neutrino physics, such as a high-statistics determination of the absolute reactor antineutrino flux and spectrum, as well as a search for sterile neutrino mixing, among others. In this talk, we will present the latest results from Daya Bay.

Content of the contribution

Experiment

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