

The latest results from the Daya Bay

Tuesday, 23 October 2018 17:40 (15)

Daya Bay was the first experiment to unambiguously measure a non-zero value of the θ_{13} mixing angle and the first reactor experiment to measure the Δm_{32}^2 mass splitting. The experiment includes eight identically designed detectors and six nuclear reactors at baselines ranging from 0.5 km to 1.6 km. A data set of nearly 4 million events has been collected over 1958 days of data taking, providing the most precise measurement of θ_{13} and a measurement of Δm_{32}^2 with a precision rivaling that from accelerator experiments. These measurements will be covered in this talk alongside with other significant results such as high-statistics measurement of the absolute reactor antineutrino flux and spectrum, as well as a search for light sterile neutrino mixing.

Primary author(s) : Mr. TRESKOV, Konstantin (Joint Institute for Nuclear Research)

Presenter(s) : Mr. TRESKOV, Konstantin (Joint Institute for Nuclear Research)

Session Classification : Particle Physics: Neutrino Physics

Track Classification : Particle physics: neutrino physics