Contribution ID: **75** Type: **Parallel session talk**

Latest oscillation results from Daya Bay

Tuesday, 22 August 2023 10:10 (20 minutes)

The Daya Bay reactor neutrino experiment is the first experiment that measured a non-zero value for the neutrino mixing angle θ_{13} in 2012. Antineutrinos from six 2.9 GW_{th} reactors were detected in eight identically designed detectors deployed in two near and one far underground experimental halls. The near-far arrangement in km-scale baselines of anti-neutrino detectors allows for a high-precision test of the three-neutrino oscillation framework. Daya Bay's collection of physics data already ended on Dec. 12, 2020. In this talk, I will show the measurement results of θ_{13} and the mass-squared difference, based on the Gd-capture tagged sample in the complete dataset. The updated results on the H-capture-based oscillation analysis and search for light sterile neutrino will also be reported if ready.

Collaboration / Activity

Daya Bay Collaboration

Primary author: Dr LI, Jinjing (Tsinghua University)

Presenter: Dr LI, Jinjing (Tsinghua University)

Session Classification: T04 Neutrino Physics

Track Classification: Neutrino Physics