



Contribution ID: 805

Type: Poster

Latest Daya Bay neutrino oscillation results

Monday 15 July 2019 18:30 (1h 30m)

The Daya Bay Reactor Neutrino Experiment was designed to measure θ_{13} , the smallest mixing angle in the three-neutrino mixing framework, with unprecedented precision. The experiment consists of eight identically designed detectors placed underground at different baselines from three pairs of nuclear reactors in South China. Since Dec. 2011, the experiment has been running stably for more than 7 years, and has collected the largest reactor anti-neutrino sample to date. Daya Bay greatly improved the precision on θ_{13} and made an independent measurement of the effective mass splitting in the electron antineutrino disappearance channel. Daya Bay also performed a number of other precise measurements, such as a high-statistics determination of the absolute reactor antineutrino flux and spectrum evolution, as well as a search for sterile neutrino mixing, among others. The most recent neutrino oscillation results from Daya Bay are discussed in this talk, as well as the current status and future prospects of the experiment.

Primary author: VOROBEL, Vit (Charles University (CZ))

Presenter: VOROBEL, Vit (Charles University (CZ))

Session Classification: Wine & Cheese Poster Session

Track Classification: Neutrino Physics