Contribution ID: **315** Type: **Parallel Talk**

Daya Bay oscillation results with full dataset

Friday, 8 July 2022 14:30 (15 minutes)

The Daya Bay experiment has collected from December 2011 to December 2020 a record sample of electron antineutrinos consisting of more than 6 million events. The reactor antineutrinos are detected via inverse beta decay and tagged through neutron capture on gadolinium or hydrogen using eight functionally identical detectors located in three experimental halls at different baselines from six nuclear reactors. The relative measurement of the observed antineutrino rate and spectral shape at the different detectors enables significant suppression of key systematic uncertainties. The most recent measurement of the $\sin^2 2\theta_{13}$ mixing amplitude and the Δm^2_{32} mass splitting using the latest available dataset of antineutino events will be presented in this talk

In-person participation

Yes

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Session Classification: Neutrino Physics

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