



Contribution ID: 288

Type: **Parallel Contributed Talk**

## Latest Results from the Daya Bay Reactor Neutrino Experiment

*Friday, 26 February 2021 10:20 (20 minutes)*

Utilizing six powerful nuclear reactors as antineutrino sources and eight identically designed underground detectors for a near-far relative measurement, the Daya Bay Reactor Neutrino Experiment has achieved unprecedented precision in measuring the neutrino mixing angle  $\theta_{13}$  and the neutrino mass squared difference  $|\Delta m^2|$ . With the largest sample of reactor antineutrino  $\bar{\nu}\bar{\nu}$  interactions ever collected to date, Daya Bay has also performed a number of other measurements in neutrino physics, such as the determination of total reactor antineutrino flux and spectrum, the extraction of individual antineutrino flux and spectra of the two dominant isotopes ( $^{235}\text{U}$  and  $^{239}\text{Pu}$ ), as well as a search for sterile neutrino mixing, among others. In this talk, I will present the latest results from Daya Bay.

### Collaboration name

Daya Bay collaboration

**Primary author:** Dr HU, Jianrun (IHEP)

**Presenter:** Dr HU, Jianrun (IHEP)

**Session Classification:** Oscillations