

# Latest Results from the Daya Bay Experiment

*Friday 16 July 2021 19:18 (12 minutes)*

The Daya Bay Reactor Neutrino Experiment, located in southeast China, was designed to measure short baseline oscillation of electron antineutrinos originating from six 2.9 GW<sub>th</sub> nuclear reactors. Since 2011, it has collected an unprecedented sample of millions of reactor antineutrino candidates, the largest sample in the world up to date, which led to the discovery of the non-zero  $\theta_{13}$  mixing angle just in 2012. In this talk, we present an overview of the latest results from Daya Bay including the measurement of oscillation parameters driving the reactor antineutrino disappearance at short baseline, with the most precise measurement of the  $\theta_{13}$  mixing angle in the world, search for light sterile neutrino mixing and search for electron antineutrinos associated with gravitational wave events among others.

## Keywords

## Collaboration

other (fill field below)

## other Collaboration

Daya Bay

## Subcategory

Experimental Results

**Primary authors:** DOHNAL, Tadeas (Charles University); FOR THE DAYA BAY COLLABORATION

**Presenter:** DOHNAL, Tadeas (Charles University)

**Session Classification:** Discussion

**Track Classification:** Scientific Field: NU | Neutrinos & Muons