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## The Precision Measurement of Reactor Antineutrino Oscillation at Daya Bay

The Daya Bay Reactor Neutrino Experiment consists of eight functionally identical detectors placed underground at different baselines from six 2.9 GW reactor cores. In 2012, the experiment announced the discovery of a non-zero value of  $\sin^2 2\theta_{13}$  with a significance better than 5  $\sigma$ , based on a dataset collected with six antineutrino detectors. In the summer of 2012, two additional detectors were installed and several millioninverse beta decay (IBD) candidates have been collected since. With the largest sample of reactor antineutrinos ever collected to date, less backgrounds and better control of systematics, the measurement of the neutrino mixing angle  $\theta_{13}$  has now reached an unprecedented precision below 4%. In this poster, the latest oscillation analysis results will be presented.

## Authorship annotation

for the Daya Bay Collaboration

## **Session and Location**

Wednesday Session, Poster Wall #6 (Robert-Schumann-Room)

## Poster included in proceedings:

yes

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Track Classification: Poster (participating in poster prize competition)