



Contribution ID: 851

Type: Poster

## Daya Bay neutrino oscillation results based on neutron captured on Hydrogen

*Friday, 8 July 2022 20:10 (20 minutes)*

The Daya Bay reactor neutrino experiment provided the first non-zero measurement of the neutrino mixing angle  $\theta_{13}$  with more than  $5\sigma$  significance using a sample of antineutrinos identified via neutron capture on gadolinium (nGd) in 2012. In 2014 and 2016, the DayaBay experiment reported independent rate-only measurements of  $\theta_{13}$ , utilizing sample of events identified using neutron capture on hydrogen (nH), which has distinct systematics to those of the nGd analysis. In this poster, we shall show the latest nH analysis result with 3 time larger statistics and that uses both the rate deficit and spectral distortion information. By improved understanding of detector energy response, we will show the latest result of  $\theta_{13}$ .

### In-person participation

Yes

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**Session Classification:** Poster Session

**Track Classification:** Neutrino Physics