

Reactor Neutrino Oscillation at Daya Bay

Wednesday, May 30, 2018 2:00 PM (30 minutes)

The Daya Bay reactor neutrino experiment continues to provide leading measurements of the mixing angle θ_{13} as well as important constraints on the atmospheric mass splitting, reactor flux models, and light sterile neutrinos. This talk begins with a review of Daya Bay's existing oscillation analysis based on 1,230 days of data. We then discuss the enhancements in our forthcoming result (to be announced at Neutrino 2018), including increased statistics, improved reconstruction, a revised energy model, updated background estimates, and various reductions in other systematic uncertainties. We conclude with a preview of other upcoming publications from Daya Bay.

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