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## **Latest Reactor Oscillation Results from the Daya Bay Experiment**

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### **Summary**

The Daya Bay reactor neutrino experiment is located next to six commercial nuclear reactors, each of which has a max thermal power of 2.9 GW. The experiment consists of two near experimental halls and one far experimental hall. The power-weighted baselines to the six power reactors are about 500 m and 1.7 km for the near and far halls, respectively. Each near hall has two antineutrino detectors (ADs) and the far hall has four ADs. All eight ADs have an identically designed nested structure with 20 tons of gadolinium-loaded liquid scintillator in the innermost zone, 22 tons of liquid scintillator in the middle zone, and 40 tons of mineral oil in the outermost zone. In 2012, the Daya Bay experiment made the first statistically significant observation of a non-zero neutrino oscillation parameter  $\theta_{13}$ . Later on the oscillation result was validated by an independent neutron captured on hydrogen result. Since the beginning of data taking, the experiment has accumulated nearly 4 million reactor neutrino candidates in about 2000 days. The statistical and systematic uncertainties have both been improved. In this talk, I will present the latest Daya Bay oscillation results.

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