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Daya Bay Neutrino Experiment: Goal, Progress and Schedule

ZHE WANG, Brookhaven National Lab, DAYA BAY NEUTRINO EXPERIMENT COLLABORATION — The discovery of neutrino oscillation, as a breakthrough in particle physics, prompted the Daya Bay Neutrino Experiment, which is designed to make a precise measurement of the last unknown neutrino mixing angle θ_{13} , with a sensitivity of 0.01 for $\sin^2(2 * \theta_{13})$, using reactor anti-neutrinos from the 17.4GW Daya Bay Nuclear Power Plant located in Shenzhen, China. This talk will introduce the goal of this experiment including an overall introduction of the selection of the site and baseline, the detector optimization, the current construction progress and the schedule for expected data taking.

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