

Title: Results from the Daya Bay Reactor Neutrino Experiment

Speaker: J. Pedro Ochoa - Lawrence Berkeley National Laboratory

The precise determination of the mixing angle θ_{13} is one of the main priorities in the field of neutrino physics. Not only is this parameter inextricably linked to the possibility of observing CP violation in the neutrino sector, but it may also hold the key to other open questions in physics, such as the matter anti-matter asymmetry in the universe. The Daya Bay Reactor Neutrino Experiment has the highest sensitivity to this parameter among all the other experiments that are currently in operation or under construction. The experiment consists of multiple identical detectors placed underground at different baselines from three groups of reactors, a configuration that minimizes systematic uncertainties and cosmogenic backgrounds. The experiment has been making steady progress, and the first results with a six-detector configuration have already been released. The most recent results will be discussed in this talk alongside the current status and future prospects of the experiment.