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Search for Time-Varying $\bar{\nu}_e \rightarrow \bar{\nu}_e$ Oscillation Probability and Lorentz Violation at Daya Bay Experiment

We discuss a search for a time-varying $\bar{\nu}_e \rightarrow \bar{\nu}_e$ oscillation probability and Lorentz violation at the Daya Bay Reactor Neutrino Experiment in the framework of the Standard Model Extension (SME). The experiment's unique configuration of multiple baselines to three groups of nuclear reactors allows to constrain individual Lorentz-violating coefficients for the first time. In addition, we search for time-varying $\bar{\nu}_e \rightarrow \bar{\nu}_e$ oscillation probability in a model independent way using Fourier analysis. The status of both searches will be described in this poster

Experimental Collaboration

Daya Bay

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