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Search for Sterile Neutrinos at RENO

The RENO experiment has successfully measured θ_{13} using the disappearance of electron anti-neutrinos in three-flavor neutrino oscillations. We search for sterile neutrinos in four-flavor oscillation model using 2200 days of data collected by the RENO experiment. We have not seen any positive signal and obtain an excluded region of the oscillation parameters. We present an excluded contour plot in $\sin^2 2\theta_{14} - \Delta m_{41}^2$ space with free $\sin^2 2\theta_{13}$ and constraint on the other oscillation parameters.

Mini-abstract

RENO obtained an excluded parameter region for sterile neutrino oscillation.

Experiment/Collaboration

The RENO Collaboration

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