

Clone of XIX International Workshop on Neutrino Telescopes



Contribution ID: 12

Type: **Parallel Contributed Talk**

Recent Results from RENO

Friday, 26 February 2021 10:00 (20 minutes)

We report recent results from the Reactor Experiment for Neutrino Oscillation (RENO). The RENO experiment consists of near and far detectors located at 294 and 1383 m, respectively, from the center of the six reactor cores of the Hanbit Nuclear Power Plant, Yonggwang, Korea. Each reactor with maximum thermal output of 2.8 GW_{th}. The reactor antineutrinos are detected through inverse beta decay interaction with free protons in gadolinium loaded hydrocarbon liquid scintillator as a target. In this presentation we will discuss about the updated measurement of θ_{13} using 3000-days of RENO data, reactor antineutrino spectrum and its significance, anomalous spectral excess of reactor antineutrinos at 6 MeV, and sub-eV and eV scale sterile neutrino searches.

Collaboration name

The RENO Collaboration

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Session Classification: Oscillations