

New results of reactor antineutrino oscillation amplitude and frequency using 3800 days of RENO data

Thursday 18 July 2024 08:45 (15 minutes)

The RENO experiment has precisely measured the amplitude and frequency of reactor antineutrino oscillation at Hanbit Nuclear Power Plant since Aug. 2011. The 2018 publication reported the measured oscillation parameters based on 2200 days of data. Before the RENO far detector was shut down in March 2023, additional 1600 days of data had been acquired. This presentation reports the updated and final result on the reactor antineutrino oscillation amplitude(frequency), with improved statistical and systematic uncertainties by 10%(14%) and 13%(23%), respectively.

Alternate track

I read the instructions above

Yes

Primary authors: Prof. YOO, Jonghee (Seoul National University); JEON, Sanghoon (Sungkyunkwan University)

Presenter: JEON, Sanghoon (Sungkyunkwan University)

Session Classification: Neutrino Physics

Track Classification: 02. Neutrino Physics