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Recent Results from RENO

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The Reactor Experiment for Neutrino Oscillation (RENO) started data-taking from August 2011 and has successfully measured the smallest neutrino mixing angle θ_13 by observing the disappearance of reactor electron antineutrinos. Electron antineutrinos from the six reactors at Hanbit Nuclear Power Plant in Korea are detected and compared by the two identical near-and-far detectors. RENO has published precise values of θ_13 and its measurement of dmˆ2_ee based on energy dependent disappearance probability. In this talk, we present an updated measurement of θ_13 and dmˆ2_ee based on roughly 3000 days of data, an independent measured value of θ_13 based on 1500 days of data with neutron capture on hydrogen as a delayed signal, and a sterile neutrino search result.

Secondary track (number)

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