

New results from RENO

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The Reactor Experiment for Neutrino Oscillation (RENO) has been taking reactor antineutrinos data from the six reactors at Hanbit Nuclear Power Plant in Korea using two identical near and far detectors since August, 2011. The smallest neutrino mixing angle θ_{13} has been successfully measured by observing the disappearance of reactor antineutrinos. In 2016, RENO has published an updated value of θ_{13} and its first measurement of Δm^2_{ee} based on energy dependent disappearance probability using 500 live days of data taken until January. RENO has accumulated more data to obtain more precise values of θ_{13} and Δm^2_{ee} . A study has been on progress to find changes in the observed reactor antineutrino flux with respect to the reactor fuel evolution. In this talk, we present newly measured values of θ_{13} and Δm^2_{ee} and results on the evolution of observed reactor antineutrino yields.

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