

Precise measurement of θ_{13} and Δm^2_{ee} at RENO

Friday, July 6, 2018 8:15 PM (15 minutes)

The RENO experiment has measured the neutrino mixing angle θ_{13} and Δm^2_{ee} , using reactor antineutrinos from the reactors at Hanbit Nuclear Power Plant since Aug. 2011. In 2016, RENO published results on $\sin^2(2\theta_{13})$ and Δm^2_{ee} using the energy dependent oscillation of reactor antineutrinos in the 500 days of data. RENO has accumulated roughly ~2000 days of data with reduced backgrounds and thus decreased systematic uncertainties. Due to the improved statistics and systematic uncertainties we measured $\sin^2(2\theta_{13})$ and Δm^2_{ee} more precisely. In this talk we will present new results from the ~2000 days data.

Primary authors: Mr LEE, Dongha (Seoul National University); Prof. [REDACTED]; Mr SERGUEY ([REDACTED]); Prof. [REDACTED]; Dr [REDACTED]; Prof. [REDACTED]; Dr [REDACTED]; Mr [REDACTED]; Prof. [REDACTED]; Dr [REDACTED]; Dr [REDACTED]; Mr [REDACTED]; Mr [REDACTED]; Mr [REDACTED]; Mr [REDACTED]; Mr [REDACTED]; Mr [REDACTED]; Prof. [REDACTED]; Mr [REDACTED]; Ms [REDACTED]; Prof. CARSTEN, Rott ([REDACTED]); Mr [REDACTED]; Prof. [REDACTED]; Prof. [REDACTED]; Mr [REDACTED]; Ms [REDACTED]; Mr [REDACTED]; Prof. [REDACTED]; Prof. [REDACTED]; Dr [REDACTED] (GIST); Prof. [REDACTED] (KAIST); Mr [REDACTED] (KAIST)

Presenter: Mr LEE, Dongha (Seoul National University)

Session Classification: POSTER

Track Classification: Neutrino Physics