



Poster session 2 – Tuesday 5 July

P2.074 Search for sterile neutrinos at RENO

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on behalf of RENO collaboration

The RENO experiment was designed to measure a neutrino mixing angle, θ_{13} , by detecting electron antineutrinos emitted from the Hanbit nuclear reactors in Korea, and succeeded to measure θ_{13} from the disappearance mode in three neutrino frame. We investigate the possibility of sterile neutrinos existence at RENO experiment and compare data with Monte Carlo generated in four neutrino frame. In this talk, we present some recent results using chi-square analysis method. The probability deficit curve as a function of an effective baseline and the excluded contour plot in $\sin^2(2\theta_{14}) - \Delta m_{41}^2$ space will be shown.