

Upgrade plan for RENO

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The more precise measurement of θ_{13} is valuable for determining the CP violating phase if combined with an accelerator neutrino beam experimental result. We plan to upgrade the RENO facility to make a precise measurement of θ_{13} and Δm_{ee}^2 and to solve the problem of the 5 MeV excess in the measured reactor neutrino spectrum. We propose to add more identical near and far detectors and to construct further far detectors located at 1.7 km away from the center of reactor array. In this talk, we present the upgrade plan for RENO with expected sensitivities.

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