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Recent results from RENO and prospects with RENO-50

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Reactor Experiment for Neutrino Oscillation (RENO) has observed the disappearance of reactor electron antineutrinos to measure the smallest neutrino mixing angle θ_{13} . The experiment has analyzed roughly 800 days of data to make an accurate measurement of the reactor neutrino flux and spectral shape, and has found an excess in the region of 5 MeV relative to the most commonly used model. Based on energy and baseline dependent disappearance of reactor neutrinos, we have extracted the neutrino oscillation frequency. In this talk, I will present a new measured value of θ_{13} and our first measurement of $|\Delta m_{ee}^2|$, and introduce a future experiment of RENO-50 to determine the neutrino mass ordering.

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