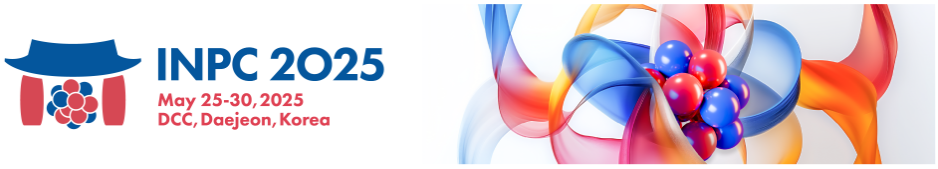

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The current status report of RENE experiment

Tuesday, 27 May 2025 09:45 (15 minutes)

The Reactor Experiment for Neutrinos and Exotics (RENE) is designed to investigate sterile neutrino in the Δm^2 ~ 2 eV^2 region. The prototype detector of the RENE experiment features a cylindrical target containing Gd-LS (0.5 ton) and two 20'in PMTs in a box-shaped gamma catcher filled with LS (1.5 ton). The baseline distance is ~23 m from the reactor core. The experiment is in the commissioning phase, with the prototype detector on the ground to prepare the first data-taking at the tendon gallery of the Hanbit Nuclear Power Plant. This presentation will provide the current preparation status for the RENE experiment.

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