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Status of Neutrino Elastic-Scattering Observation with NaI(Tl) (NEON) Experiment

The Neutrino Elastic-Scattering Observation with NaI(Tl) (NEON) experiment aims to observe coherent elastic neutrino-nucleus scattering (CEvNS) and extends its scope to include incoherent neutrino-nucleus scattering (IvNS).

The experiment is located at the tendon gallery of the Hanbit Nuclear Power Plant in Yeonggwang, South Korea, and has been successfully operating since 2022 using 6 high-light-yield NaI(Tl) detectors with a total crystal mass of 16.7 kg.

This presentation will provide an overview of the current status of the NEON experiment, including the detector configuration, operational progress, and preliminary analysis results for both coherent and incoherent neutrino scatterings.

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