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Status of the GanESS project

Monday 9 June 2025 09:45 (18 minutes)

I will present the current status of the experiment GanESS and the GaP prototype, an effort to detect Coherent Elastic Neutrino-Nucleus Scattering (CEvNS) at the European Spallation Source (ESS), utilizing high-pressure Time Projection Chambers (TPCs) as the detection technology. The use of high-pressure noble gas TPCs allows for very good energy resolution and sub-keV thresholds, essential for observing the tiny nuclear recoils expected from CEvNS events. We discuss the detector design, expected performance, and initial commissioning results.

Author: MONRABAL-CAPILLA, Francesc (Donostia International Physics Center (DIPC) (ES))

Presenter: MONRABAL-CAPILLA, Francesc (Donostia International Physics Center (DIPC) (ES))

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