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Status and physical program of the ν GeN experiment at Kalinin NPP

The ν GeN (“nu-GeN”) setup is collecting data at Kalinin NPP, 11.1 m from the center of a 3.1 GW reactor core, since late 2019. The aim of the experiment is to measure coherent elastic antineutrino-nucleus scattering (CEvNS) as well as to search for antineutrino electromagnetic properties with a 1.4 kg germanium point-contact detector. The talk presents updated results of the experiment on antineutrino magnetic moment, millicharge and hypothetical millicharged particles. The plans for the setup modification including the NaI-based “Compton veto” and new DAQ system allowing to record waveforms from the germanium detector are discussed.

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