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Sensitivity of the ν GeN experiment to the antineutrino magnetic moment and millicharge

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The ν GeN experiment aims to study coherent elastic neutrino-nucleus scattering and antineutrino electromagnetic properties. The experimental setup is deployed at the Kalinin Nuclear Power Plant. The data is collected with the help of a 1.4 kg high purity germanium detector located at about 11 meters from the reactor core. This poster presents the estimate of the sensitivity of the ν GeN experiment to antineutrino magnetic moment and charge. The estimate is performed based on the energy deposition spectrum corresponding to 69.2 days exposition time in the reactor OFF regime.

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