Contribution ID: **386** Type: **Poster**

A system for collecting and recording data from CAEN electronics in the νGen experiment

Saturday 5 July 2025 18:20 (20 minutes)

Modern data collection systems in experimental nuclear physics are quite extensive in functionality, but as a rule, manufacturers of specialized equipment and software rely on versatility, which can lead to problems in conducting highly specialized measurements. In
In particular, in the νGen experiment, the main task of which is to detect coherent neutrino scattering, it is necessary to lower the detection energy threshold to less than 300 eV. For this purpose, a software package was developed that allows recording waveforms and provides reliable data storage in conditions of high counting speed of the experimental installation.

Primary author: DOVBNENKO, Maxim (JINR)

Co-authors: Mr LUBASHEVSKIY, Alexey (JINR); Mr PONOMAREV, Dmitry (JINR); Mr ZHITNIKOV, Igor (JINR); EVSEEV, Sergei (JINR); Mr KAZARTSEV, Sergei (JINR); ROZOV, Sergei (JINR)

Presenter: DOVBNENKO, Maxim (JINR)

Session Classification: 9. Poster Session

Track Classification: Section 5. Physics of neutrino and nuclear astrophysics.