

# A system for collecting and recording data from CAEN electronics in the $\nu$ Gen experiment

**Author:** Maxim Dovbnenko<sup>1</sup>

**Co-authors:** Alexey Lubashevskiy<sup>1</sup>; Dmitry Ponomarev<sup>1</sup>; Igor Zhitnikov<sup>1</sup>; Sergei Evseev<sup>1</sup>; Sergei Kazartsev<sup>1</sup>; Sergei Rozov<sup>1</sup>

<sup>1</sup> *JINR*

**Corresponding Author:** dovbnenko@jinr.ru

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 particular, in the  $\nu$ Gen 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.