

GENDARC, the Geel Neutron physics data acquisition

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GENDARC, the Geel Neutron physics data acquisition, analysis and run control program, based on the object-oriented framework ROOT, has been started in the EC-JRC-Institute of Reference Materials and Measurements in Geel, Belgium. On the one hand, the program improves existing data acquisition, monitoring and data analysis capabilities with respect to existing analogue electronics used in nuclear measurements. On the other hand, it is extended to use new digital hardware in the form of Waveform Digitizers for measuring physical quantities with digital signal processing (DSP) methods to reconstruct and analyse them. At the same time it allows the re-use of existing analysis procedures already used in publications due to a specially created C++-software interface.

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