

CAEN and CAENels software tools for power supplies and front-end electronics controls

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Since its establishment in 1979, CAEN operates in a highly specialized international market: the design, the production and the supply of electronic instrumentation for radiation and low light sensors in the field of nuclear and particle physics represent its unique know-how. This presentation focuses on the software tools that CAEN developed in order to simplify and to standardize the integration of its electronic systems in various experimental setups. The example of the ATLAS Muon Chambers power supply systems will be presented together with the latest developments for future applications and for the future upgrades of already existing experiments.

The new CAEN spin-off company CAENELS will be also introduced. CAENELS was born in 2009 with the mission to provide electronic instrumentation to the particle accelerator community, from magnet power supplies to diagnostic electronic instrumentation, from precision current sensors to complex beamline electronic systems.