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## Digital acquisition systems for neutron tube and solid-state detectors

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We will present a new acquisition system aimed at highly segmented detectors. The system is tailored around the specific needs of segmented solid-state detectors, in particular silicon detectors, and reduces the number of modules needed, thus simplifying the setup, reducing time, and saving money. The system counts 64 channel preamp and digitizer for the independent readout of detectors with high channel density, some preliminary benchmarks will be presented as well as overall capabilities.

The second acquisition system has been developed for the MICADO project, an EU funded project to improve already state-of-the-art measurement techniques for nuclear waste characterization. In this talk we will illustrate the readout system for the active/passive neutron interrogation which uses He3 tubes and comprises of a signal amplifier and a neutron pulse train recorder.

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