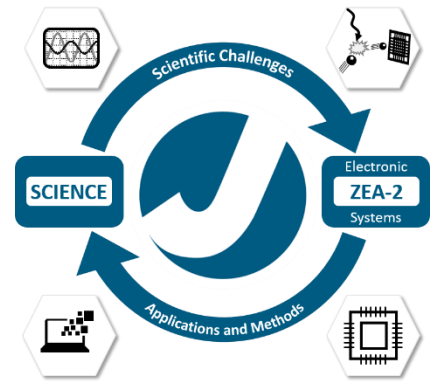


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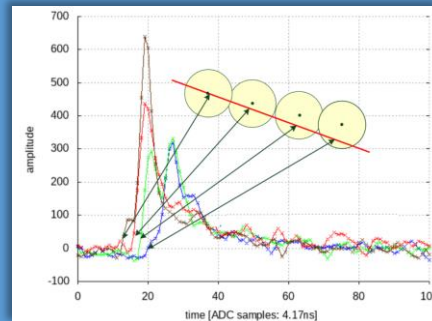
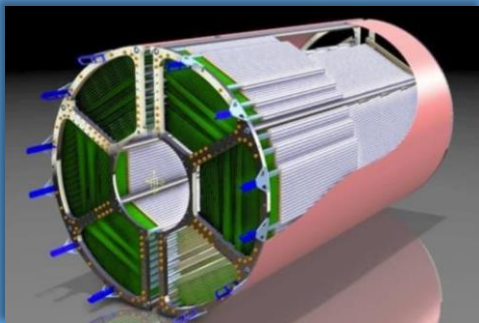
Sampling-based Data Acquisition System

The Need

Readout of the Central Straw Tube Tracker of the PANDA experiment. Sampling of detector signals with analog-to-digital converters and data reduction in real-time.

Key Features

- Sampling of detector signals with up to 1 GSPS
- Very compact system, processing of over 2000 channels in one 19"-crate
- Low power consumption
- Pulse analysis in real-time allows data reduction in early stage



Impact

- Flexible adaptation of signal processing algorithms through use of FPGAs
- High integration gives possibility to implement algorithm dealing with coincidences
- Replaceable Input- and Communication-Units allow adaptation for further systems

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