Dansk Fysisk Selskab

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VME Readout at and Below the Conversion Time Limit

The front-end signal processing for small and medium scale experiments mostly rely on off the shelf modular electronics, which is often housed in VME crates. In addition to the constraints imposed by hardware, the achievable acquisition rates of such modules depend heavily on the readout software. In this talk, I will introduce an asynchronous readout scheme that significantly improves the livetime of an otherwise synchronous triggered VME-based data acquisition system.

Author: MUNCH, Michael (Aarhus University)

Presenter: MUNCH, Michael (Aarhus University)