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Time Correlated Data Acquisition (DAQ) for the APS Upgrade

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(presented on behalf of Ned Arnold and Sinisa Veseli)

The DAQ software captures synchronously sampled, time-correlated data from several critical subsystems: beam position monitor (BPM) values, storage ring RF cavity field measurements, fast injection kickers, beam diagnostics, and power supply read-backs. The key features of the system include the capability to acquire data from multiple subsystems at various sample rates, support for continuous data acquisition, and the ability to route the data to any number of applications. In this talk we present progress and future plans.

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