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Instrumentation Challenges for High-Rate Antiproton Experiments

Experiments such as PANDA at the Facility for Antiproton and Ion Research (under construction in Darmstadt, Germany) and the proposed TAPAS antiproton experiment at Fermilab require high-rate data acquisition and triggering, and high-bandwidth data recording, in order to cope with a ~ 10 MHz event rate, 20 to 50 MHz charged-particle rate, and up to ~ 100 kHz rate of potentially interesting events. Possible solutions to these challenges will be discussed.

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