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The DAQ System for a Beam Detection System Based on TPC-THGEM

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A beam detection system has been developed for electron's track, position and energy calibration, which consists of a TPC-THGEM detector, a particle distribution detector (PDD) and a silicon-based energy detector. Its DAQ system aims to realize a 40MHz waveform sampling readout for 511 channels of TPC and 200 channels of PDD, as well as reconstruction and three-dimensional display of each good event. In our design, the DAQ system is a small scale distributed system based on client-server architecture, with each subsystem running independently, which improves the performance, scalability and maintainability of the whole system. This paper will present the detailed implementation of the DAQ system and evaluation of its overall performance.

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