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Design and Commissioning of Texas Active Target (TexAT) detector system

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Texas Active Target detector system (TexAT) is designed for nuclear structure, nuclear reactions and nuclear astrophysics studies with rare isotope beams. It consist of a planar time projection chamber (TPC) that is based on the microMegas technology. The TPC is complemented by the Silicon detectors shell and the CsI(Tl) detectors shell. The readout is based on GET electronics. Data analysis is performed using a special computer cluster with data local architecture. We will overview the design and performance of the TexAT detector system and discuss preliminary results of the commissioning run in which the excitation function for ^{8}B+p resonance elastic scattering was measured.

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