

Abstract Submitted
for the DNP13 Meeting of
The American Physical Society

Report on current status of TAMUTRAP facility P.D. SHIDLING, M. MEHLMAN, S. BEHLING, Y. BORAN, B. FENKER, D. MELCONIAN, Cyclotron Institute, Texas A&M University, DGM GROUP TEAM — The Texas A&M University Penning Trap (TAMUTRAP) facility is currently under construction and will take advantage of the radioactive ion beams to become available when the upgrade to the Cyclotron Institute, Texas A&M University, TAMU Re-accelerated Exotics (T-REX) is completed. The primary goal of the TAMU-TRAP facility is to test the Standard Model (SM) for a possible admixture of a scalar (S) or tensor (T) type of interaction in $T = 2$ superallowed beta delayed proton emitters. This information will be inferred from the shape of the observed proton energy spectrum. Additional goals for this facility are mass measurements, lifetime measurements, and ft values. The two main components in the TAMUTRAP facility are a radio-frequency quadrupole (RFQ) for cooling and bunching the ions and Penning trap system with two cylindrical Penning traps. Offline tests of the RFQ coupled to the injection optics has recently started, with beam being successfully injected into and extracted from the RFQ. Further tests are being performed in order to determine absolute efficiency of the RFQ and injection optics. Several additional parts of the TAMUTRAP beam line have also been fabricated and are being tested. A brief overview of the TAMUTRAP facility and its current status will be presented.

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Date submitted: 30 Jun 2013

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