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TACTIC: A Detector for Tracking in Low Energy Nuclear Astrophysics K.A. CHIPPS, University of York, P.A. AMAUDRUZ, L. BUCHMANN, P. BRUSKIEWICH, TRIUMF, S.P. FOX, B.R. FULTON, University of York, U. HAGER, TRIUMF, A.M. LAIRD, University of York, P. MACHULE, L. MARTIN, R. OPENSHAW, G. RUPRECHT, A.C. SHOTTER, P. WALDEN, M. WALTER, TRIUMF — In nuclear astrophysics, detection of low energy reaction products is often difficult with techniques such as silicon detectors. To this end, the TRI-UMF Annular Chamber for Tracking and Identification of Charged-particles (TAC-TIC) detector has been designed and built by an international collaboration between TRIUMF and the University of York. TACTIC is a cylindrical, segmented-anode, active-target TPC which utilizes high-gain preamps, digital electronics, Gas Electron Multiplier (GEM) foils and a He-CO₂ gas mixture. First results from a recent radioactive beam test to study ⁸Li(α ,n)¹¹B will be discussed.

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