Abstract Submitted
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Study of the levels in ^{12}N using the ^{14}N(p,t) reaction with JENSA[1] K.A. CHIPPS, Oak Ridge National Laboratory/University of Tennessee Knoxville, U. GREIFE, Colorado School of Mines, D.W. BARDAYAN, University of Notre Dame, J.C. BLACKMON, L.E. LINHARDT, Louisiana State University, A. KONTOS, H. SCHATZ, Michigan State University, R.L. KOZUB, Tennessee Technological University, M. MATOS, S.D. PAIN, M.S. SMITH, Oak Ridge National Laboratory, S.T. PITTMAN, A. SACHS, K.T. SCHMITT, P. THOMPSON, University of Tennessee Knoxville, JENSA COLLABORATION — Based on consideration of the isobaric analogues ^{12}B and ^{12}C, the experimental information on ^{12}N is incomplete, with a number of inconsistencies between the compilations and the results of individual studies. As one of a series of commissioning physics measurements to demonstrate the benefit of the new Jet Experiments in Nuclear Structure and Astrophysics (JENSA) gas jet target for enabling next-generation transfer reaction studies, the ^{14}N(p,t)^{12}N reaction was studied using a pure 300 psig jet of nitrogen, in order to help elucidate the structure of ^{12}N. The experiment and results will be discussed.

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