

Abstract Submitted  
for the HAW14 Meeting of  
The American Physical Society

**An overview of the JENSA gas jet target system with preliminary  $^{20}\text{Ne}(p,t)^{18}\text{Ne}$  results** P. THOMPSON, UTK, D.W. BARDAYAN, ND, J.C. BLACKMON, LSU, K.A. CHIPPS, CSM/ORNL/UTK, U. GREIFE, CSM, A. KONTOS, NSCL/MSU/JINA, R.L. KOZUB, TTU, L.E. LINHARDT, LSU, M. MATOS, S.D. PAIN, ORNL, S.T. PITTMAN, A. SACHS, UTK, H. SCHATZ, NSCL/MSU/JINA, K.T. SCHMITT, UTK, M.S. SMITH, ORNL, JENSA COLLABORATION — The Jet Experiments in Nuclear Structure and Astrophysics (JENSA) gas jet target system was designed to provide a gas target that was pure, localized, and dense. Several commissioning experiments with the JENSA target, performed at Oak Ridge National Laboratory, were undertaken to demonstrate the unique capability of JENSA for transfer reaction studies. JENSA has since been moved from Oak Ridge National Laboratory to the ReA3 reaccelerated beam hall at the National Superconducting Cyclotron Laboratory (NSCL). An overview of the JENSA design and operation will be presented, as well as preliminary results from a  $^{20}\text{Ne}(p,t)^{18}\text{Ne}$  transfer reaction commissioning measurement performed with JENSA. Research supported by the U.S. Department of Energy.

Paul Thompson  
University of Tennessee - Knoxville

Date submitted: 27 Jun 2014

Electronic form version 1.4