

Abstract Submitted
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First Scattering Reaction Using JENSA Gas Jet Target¹ ALLISON SACHS, University of Tennessee, KELLY CHIPPS, Colorado School of Mines, KATE JONES, University of Tennessee, STEVEN PAIN, MICHAEL SMITH, Oak Ridge National Laboratory, JENSA COLLABORATION — The Jet Experiments in Nuclear Structure and Astrophysics (JENSA) gas jet target, currently located at Oak Ridge National Laboratory, is a new target system designed to provide a target of light gases that is localized, dense and pure. Such a target is necessary to answer many open questions in nuclear structure and astrophysics, because it provides hydrogen and helium isotopes without any backing materials, contaminants, window materials, or extended gas cells. In order to characterize the jet, several techniques are used, including energy loss measurements and elastic scattering. The first scattering experiment done with the JENSA gas jet target was a 40 MeV tin-120 beam incident on a jet of nitrogen-15. The results of this experiment will be presented.

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