Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Charged Particle Characteristics of the ^{124}Xe+^{112,124}Sn reactions at 50A MeV[1] A.B. MCINTOSH, S. HUDAN, Z. GOSSER, C.J. METELKO, M. RUDOLPH, R. YANEZ, R.T. DE SOUZA, Indiana University, A. CHBIHI, GANIL, M. FAMIANO, Western Michigan University, M.O. FRÉGEAU, J. GAUTHIER, J. MOISAN, R. ROY, Université Laval, C. SCHWARZ, S. BIANCHIN, W. TRAUTMANN, GSI — To investigate the density dependence of the symmetry energy in the nuclear equation of state, neutrons and charged particles produced in the reactions ^{124}Xe+^{112,124}Sn at E/A=50MeV were measured. Charged particles emitted in the angular range 2.8-14.5° were detected with the Indiana array FIRST with good energy and angular resolution. Charged products at larger angles (30-45°) were detected in the Si strip array LASSA. The DEMON array was used to identify neutrons and measure their kinetic energies using pulse-shape discrimination and TOF. Isotopic resolution was obtained in all charged particle detectors. Energy distributions, angular distributions, and the Z distributions of charged products will be presented. Yields of isotopically resolved fragments will be compared; the effect of the target N/Z on the production of these fragments will be examined.

[1]Supported by US DOE Grant No. DE.FG02-88ER.40404.

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Date submitted: 25 Feb 2009 Electronic form version 1.4