

Density Dependence of the Symmetry Energy through Emitted Protons and Neutrons

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Recently, at the NSCL, an experiment designed to measure the emitted protons and neutrons from symmetric reactions of different tin isotopes was completed to construct the observable of the yield ratios of neutron and protons. The experiment was conducted with $^{112,124}\text{Sn}$ beams on $^{112,124}\text{Sn}$ targets at 50 and 120 MeV per nucleon. Preliminary results from the experimental analysis and simulations of these ratios using transport models will be presented.