

Abstract Submitted
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Fragment emission and production in Peripheral Collisions in the Intermediate Energy regime SARAH SOISSON, B. STEIN, G. SOULIOTIS, D. SHETTY, Texas A&M University, A. KEKSIS, S. WUENSCHHEL, S.J. YENNELLO, Texas A&M University — In recent years, examination of the kinetic energy spectra of emitted isotopes in multi-fragmentation reactions has shown that neutron-poor isotopes have larger mean kinetic energies than neutron-rich isotopes. Using the FAUST array, isotopically resolved fragments are detected from the reactions of $A \sim 20-40$ projectiles with a heavy target, a reconstructed quasi-projectile can be determined. This reconstructed quasi-projectile allows for good source definition as well as good N/Z determination of the emitting source. By selecting on isotopically identified fragments emitted from well defined sources, it will be shown that the fragment contributions present in the Coulomb peak and the tail of the kinetic energy spectra evolve with the N/Z of the emitting source. Also, the fragment yield as a function of energy will be shown to be dependant of N/Z of the emitting source.

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