

Abstract Submitted
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Isotopic trends in dynamical breakup SYLVIE HUDAN, ROMUALDO DE SOUZA, Indiana University, ALAN MCINTOSH, Texas A&M University — The simultaneous measurement of neutrons and charged particles produced in peripheral and mid-peripheral collisions in a heavy-ion cross-bombardment reaction $^{124,136}\text{Xe} + ^{112,124}\text{Sn}$ at $E/A = 50$ MeV is described. Dynamical decay in which the excited projectile-like fragment (PLF) decays on the timescale of its rotation is observed. Specifically, the dependence of the decay timescale on the charge-asymmetry of the binary split of the PLF is extracted. In addition, the correlation between the composition of the lighter fragment, the size of the lighter fragment, the velocity damping and the decay orientation is examined.

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