

Abstract Submitted  
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**Equilibration between projectile and target in heavy-ion nuclear collisions** LARRY MAY, ZACHARY KOHLEY, GIACOMO BONASERA, PAUL CAMMARATA, LESLIE GALVAN, KRIS HAGEL, LAUREN HEILBORN, JUSTIN MABIALA, PAOLA MARINI, ALAN MCINTOSH, GEORGE SOULIOTIS, JOHN VU, SARA WUENSCHER, MICHAEL YOUNGS, ANDREW ZARRELLA, SHERRY YENNELLO, Texas A&M University — Understanding equilibration in heavy-ion collisions is of significant importance to nuclear physics. Since nuclei are composed of neutrons and protons, the difference in the number of neutrons and protons, or asymmetry, can be used to study equilibration processes in the nucleus. We can study the equilibration occurring between two nuclei with differing asymmetry compositions in Fermi energy heavy-ion collisions by using various observables and compare these observables to predictions from theory calculations in order to better understand the asymmetry effects on nuclear reactions. Asymmetry difference of fragments produced in reactions of Zn and Ni at 35MeV/nucleon will be examined.

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