Abstract Submitted
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Thermodynamics of Asymmetric Nuclear Material ALAN MCINTOSH, A. BONASERA, P.J. CAMMARATA, K. HAGEL, Z. KOHLEY, L. HEILBORN, J. MABIALA, L.W. MAY, P. MARINI, A. RAPHELT, G.A. SOULIOTIS, S. WUENSCHEL, A. ZARRELLA, H. ZHENG, S.J. YENNELLO, Texas A&M University — The nuclear caloric curve is observed to depend on the neutron-proton asymmetry. Three independent methods, each with multiple probes, are used to extract the temperatures of excited emitting sources. A linear decrease in the temperature with increasing neutron excess is observed for all 12 probes studied. Comparison of these results to theoretical model calculations may allow further characterization of the nuclear equation of state, in particular the asymmetry energy.

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