

Abstract Submitted  
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**Breakup Densities of Hot Nuclei.**<sup>1</sup> VIC VIOLA, Indiana University, ISIS COLLABORATION — Breakup densities of hot  $^{197}\text{Au}$ -like residues have been deduced from the systematic trends of Coulomb parameters required to fit intermediate-mass-fragment kinetic-energy spectra. The results indicate emission from nuclei near normal nuclear density below an excitation energy  $E^*/A \lesssim 2$  MeV, followed by a gradual decrease to a near-constant value of  $\rho/\rho_0 \sim 3$  for  $E^*/A \gtrsim 5$  MeV. Temperatures derived from these data with a density-dependent Fermi-gas model yield a nuclear caloric curve that is generally consistent with those derived from isotope ratios.

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Vic Viola  
Indiana University

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