MAR08-2007-000155

Abstract for an Invited Paper for the MAR08 Meeting of the American Physical Society

On the statistical physics of folding and crumpling AREZKI BOUDAOUD, LPS, CNRS/Ecole Normale Superieure

Unfolding a ball of crumpled paper reveals numerous ridges with a wide distribution of sizes. How can we describe the statistics of sizes and energies? Can we understand this system using the tools of statistical physics? During my talk, I will review the various experimental and theoretical approaches that we used to tackle these questions, which are typical of glasses and granular media.