

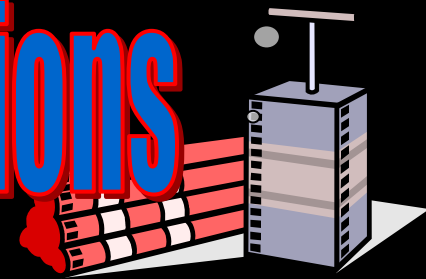


CU Physics Department Colloquium

Monday, April 21, 2008 4:10 PM 428 Pupin Hall

Adam Burrows, Princeton University

Simulating Supernova Explosions



"What has emerged from recent multi-dimensional supernova simulations is the conviction that instabilities and the breaking of spherical symmetry are crucial to explosion, whatever the mechanism. In this talk, I will summarize and motivate the various mechanisms that still contend as the agency of core-collapse explosions and the multi-dimensional complexity that numerical experiments suggest. In the process, I will address future plans to achieve the physical fidelity and numerical precision necessary to engender confidence in what emerges from the next-generation of simulations and the character of the radiation-magneto-hydrodynamics tools in the offing."



Hosted by Szabolcs Marka

