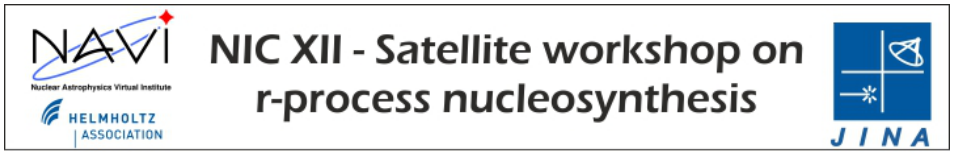

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Current status of core-collapse supernova simulations:

Saturday, 4 August 2012 13:30 (30 minutes)

In this contribution, we give overview about a current status
of multidimensional radiation hydrodynamic simulations of core-collapse supernovae. In addition to 3D hydrodynamics and general relativity, both of
which are now considered as the most important ingredients for making successful explosions, we discuss also impacts of nuclear equations of state on
the supernova dynamics. We report our recent results on
magnetohydrodynamically-driven models, which are expected to provide
possible r-process cites.

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Session Classification: Simulations