

Title: Core Collapse and Friends Discussion 3

Date: Jun 22, 2011 03:40 PM

URL: <http://www.pirsa.org/11060081>

Abstract:



Normal Outline Notes Handout Slide Sorter

## Code Breakout Session: Core Collapse Codes

- Set of test to test three elements:
  - (1) 1D hydro + EOS implementation (rfd: Ott)  
adiabatic collapse, collapse with Liebendoerfer Ye( $\rho$ ),  
compare entropy conservation/evolution,  $\rho_{ho\_c}$  etc.
  - (2) Multi-D hydro (rfd: Fernandez)  
2D or 3D, SASI initial conditions, point mass, cooling  
function, compare saturation amplitudes
  - (3) radiation transport (rfd: Messer)  
Simple isotropic sphere test problem.  
Liebendoerfer et al. 2005, 100 ms postbounce, LS 180  
static profile, no velocities, solve for radiation field,  
same microphysics, different transport solvers.

Tasks View

Master Pages

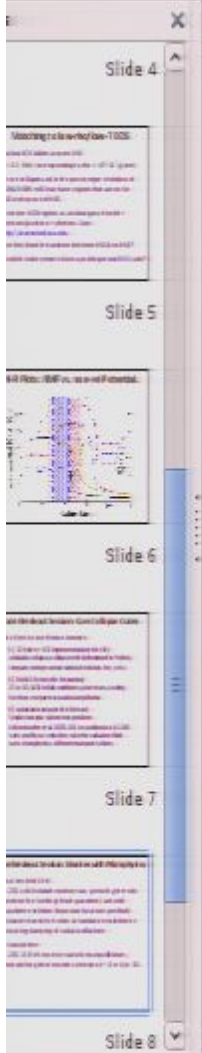
Layouts



Table Design

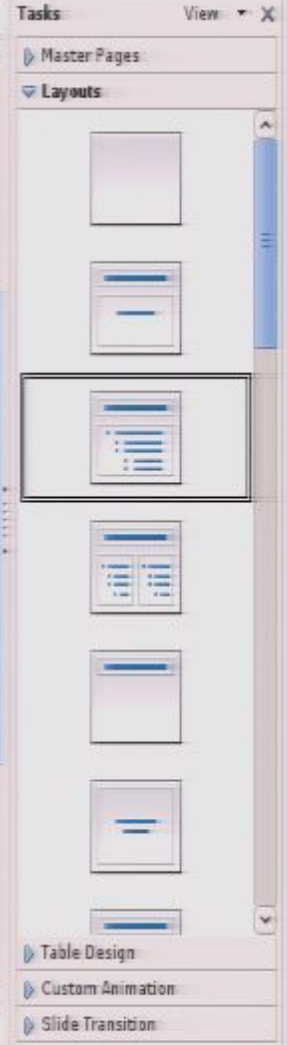
Custom Animation

Slide Transition



## Code Breakout Session: Binaries with Microphysics

- Basic test (rfd: Ott):  
LS 220, cold isolated neutron star, perturb, get mode spectrum for Cowling (fixed spacetime) and with spacetime evolution (boundary location specified). Measure viscosity of codes at standard resolution by measuring damping of radial oscillations.
- Advanced test:  
LS 220, 10 MeV neutron star in beta equilibrium, compute long-term neutrino emission (~ 10 ms) in 3D.



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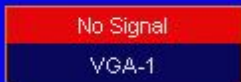


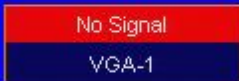
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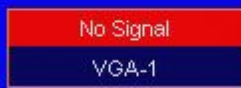
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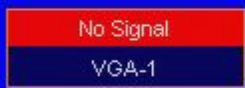


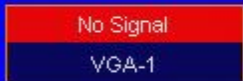


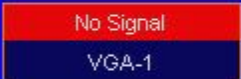




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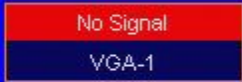






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