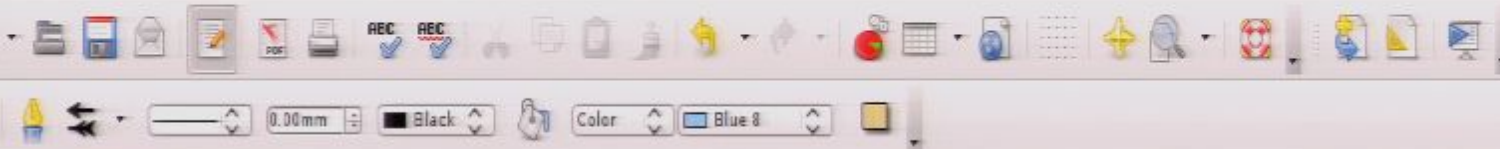


Title: Microphysics in Computational Relativistic Astrophysics - Discussion 2

Date: Jun 22, 2011 11:20 AM

URL: <http://pirsa.org/11060084>

Abstract:



Connecting Simulations with Nucleosynthesis / EM Signal Calculations

- What is needed?
- What can be implemented (easily)?

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Connecting Simulations with Nucleosynthesis / EM Signal Calculations

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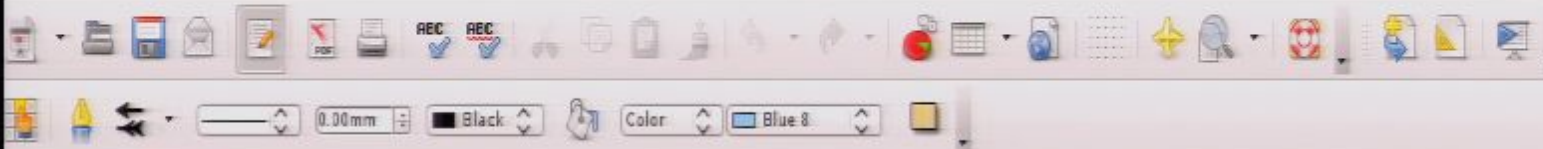
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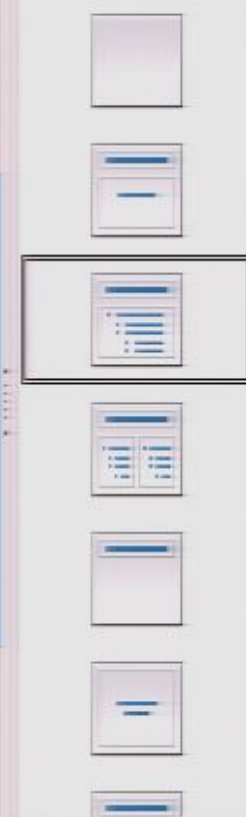
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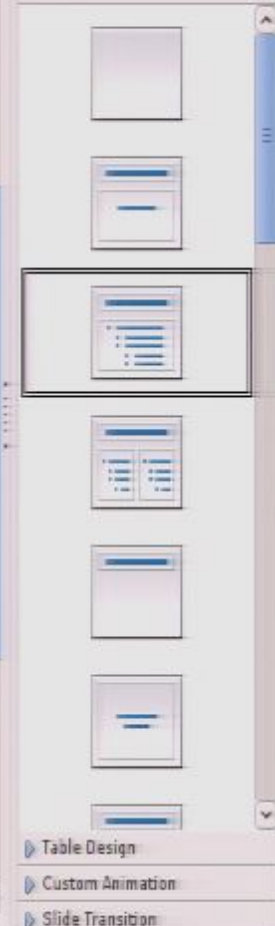
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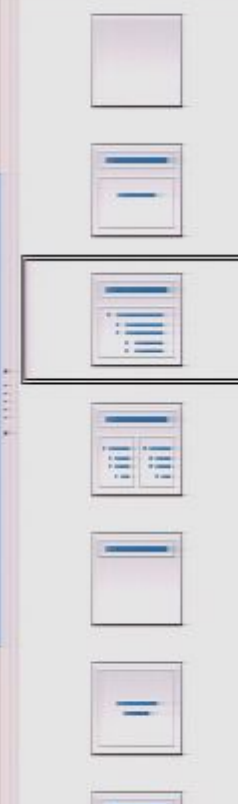
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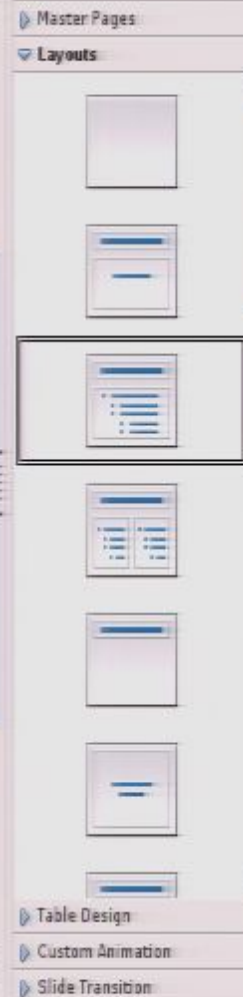
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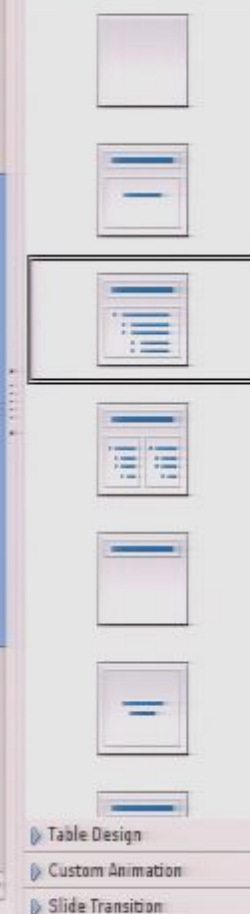
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- Different issues for tidally ejected matter and neutrino-driven



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- Different issues for tidally ejected matter and (neutrino-driven) disk wind.
- Some ejecta may be rapidly heated

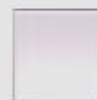


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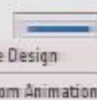


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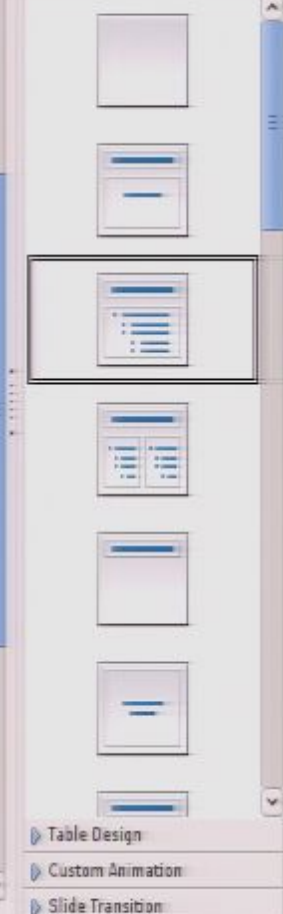
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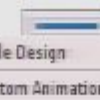
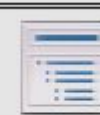


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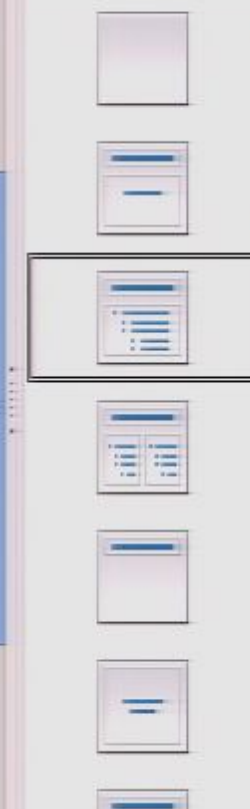
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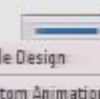
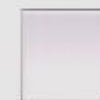


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Connecting Simulations with Nucleosynthesis / EM Signal Calculations

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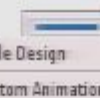
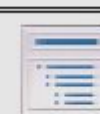


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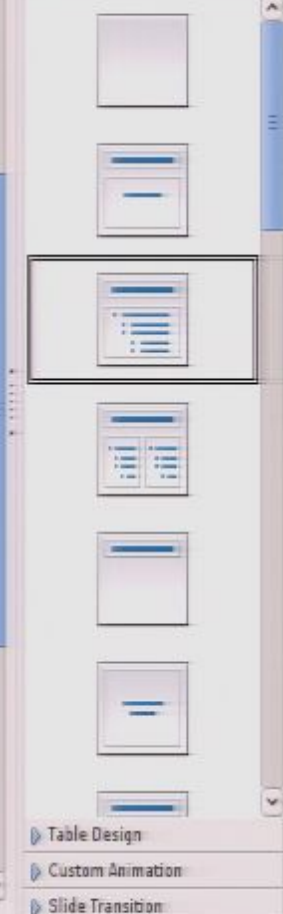
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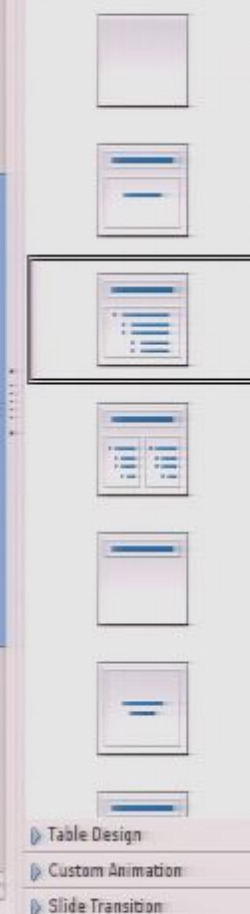
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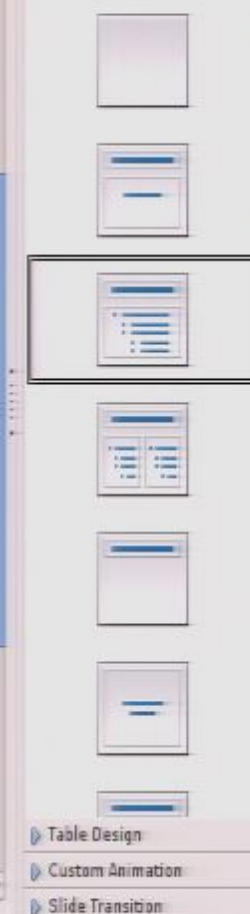
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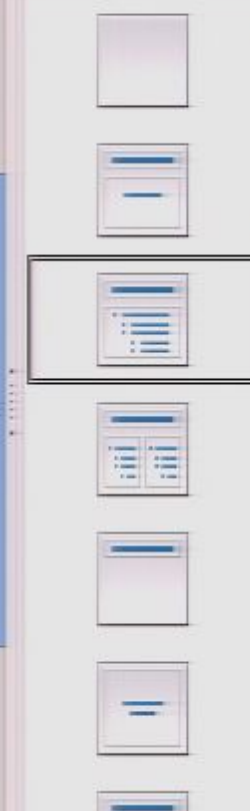


Table Design

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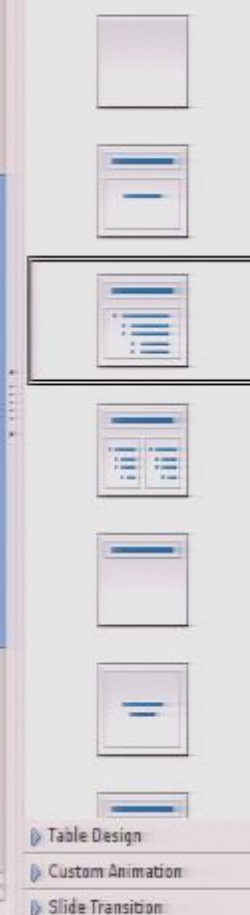
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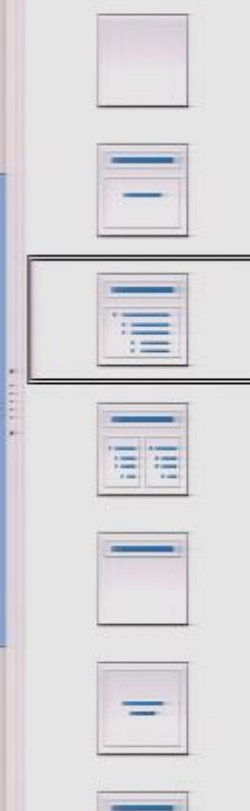
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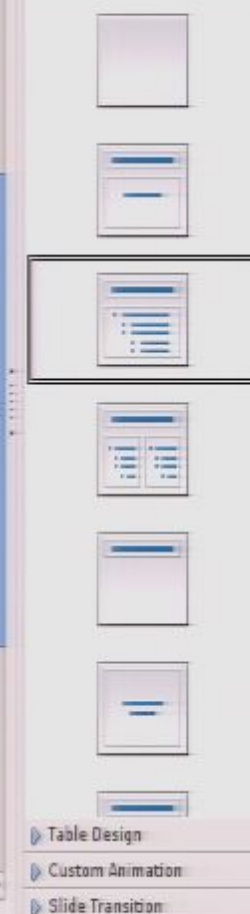
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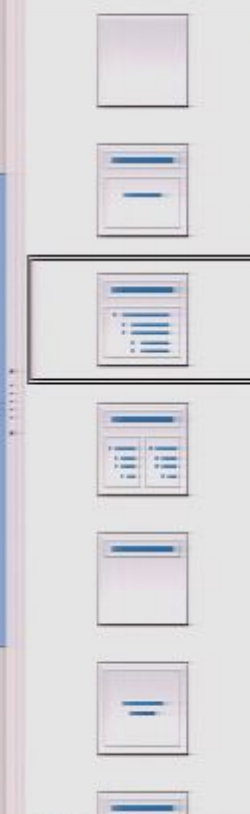
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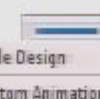
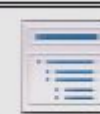


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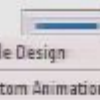
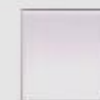


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- ▶ Custom Animation
- ▶ Slide Transition



Connecting Simulations with Nucleosynthesis / EM Signal Calculations

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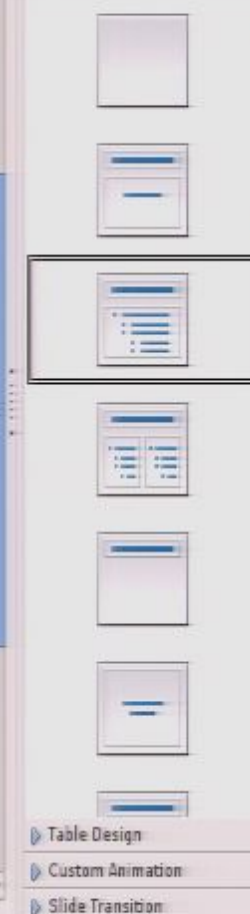
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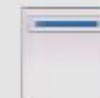
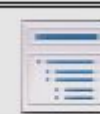


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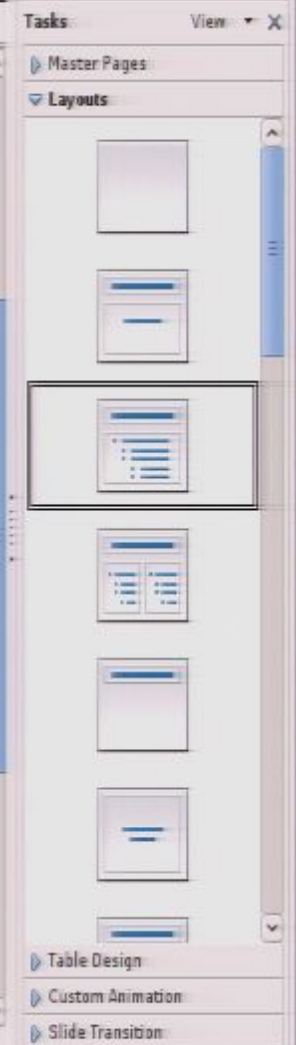
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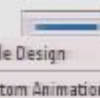
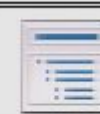


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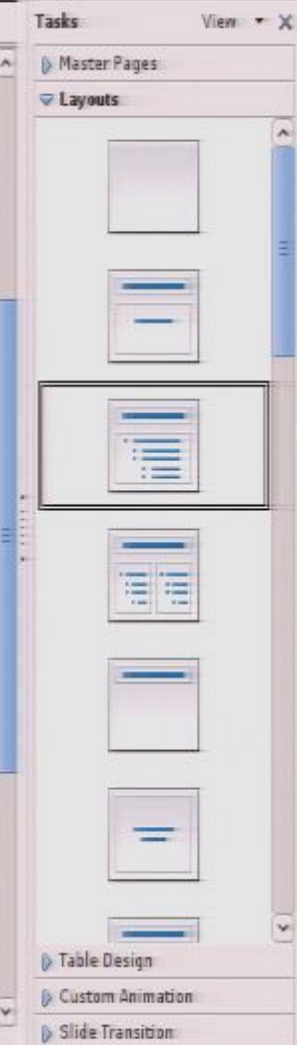


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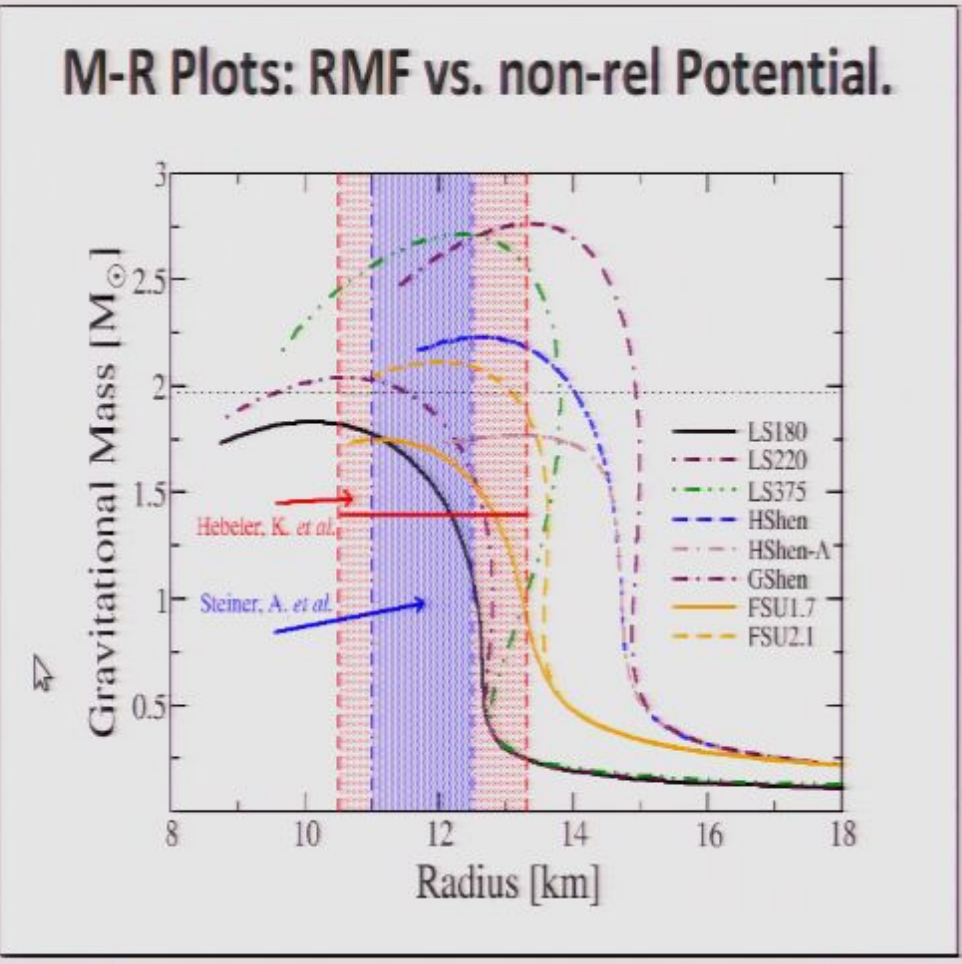
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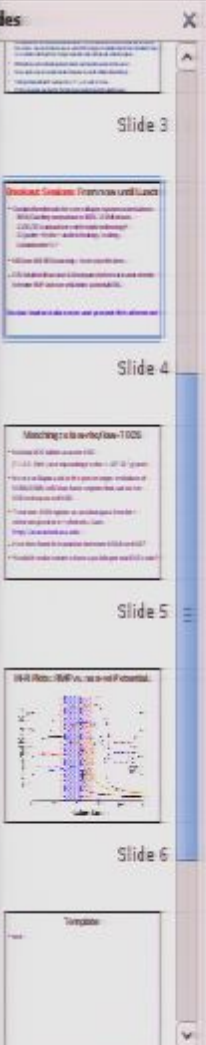
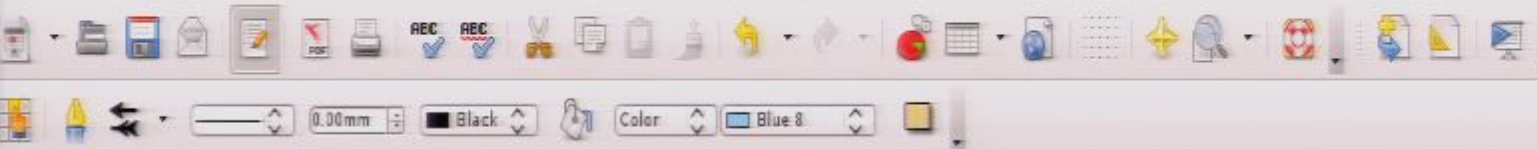
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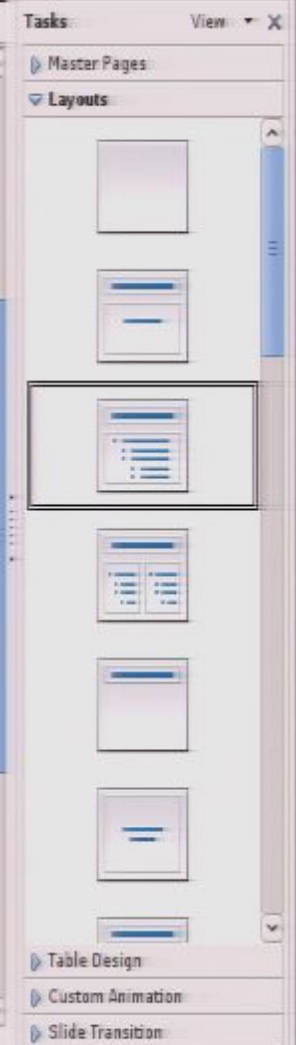




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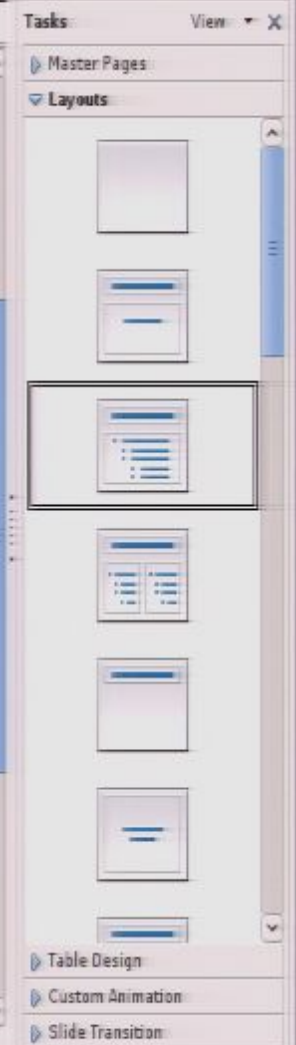


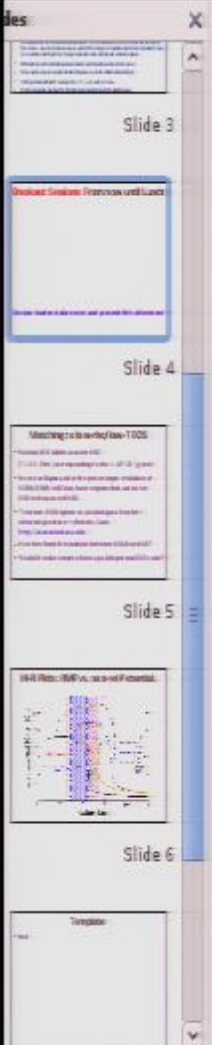


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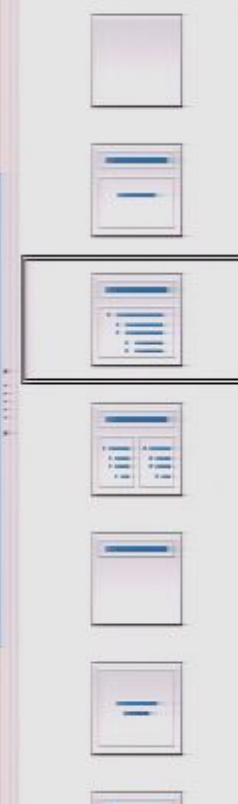


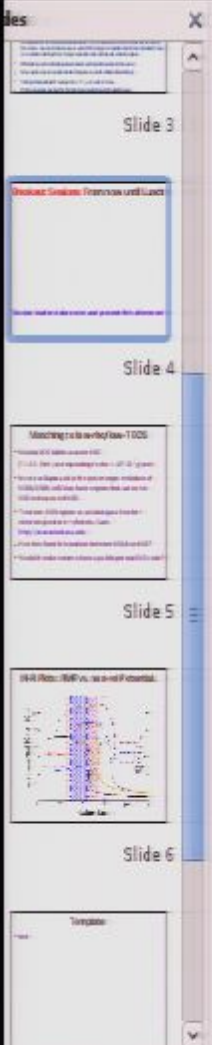


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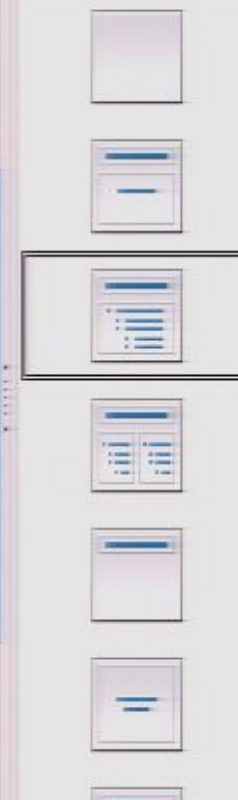


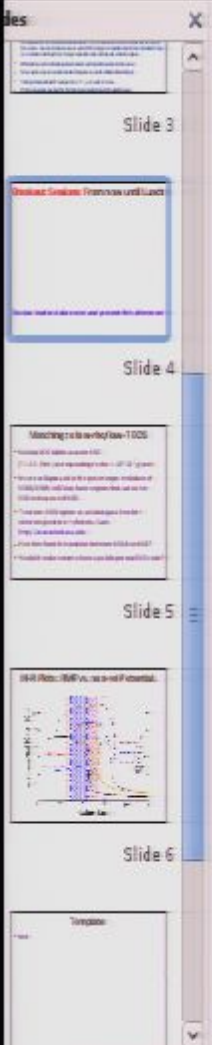


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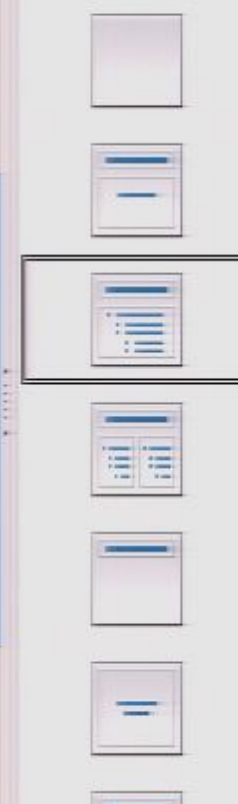




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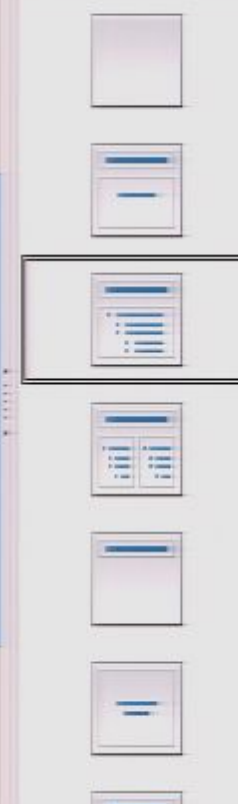


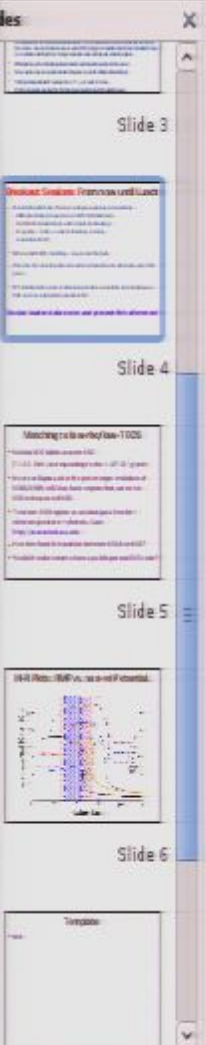
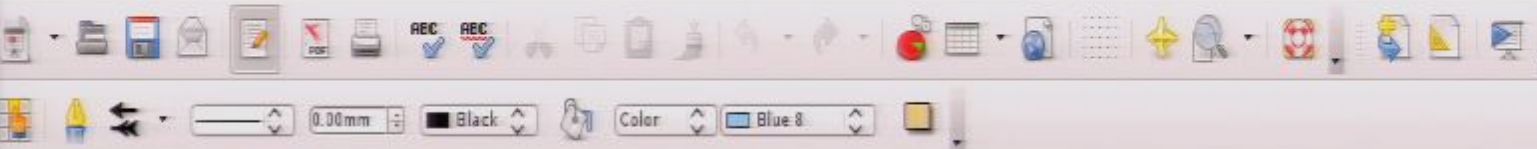


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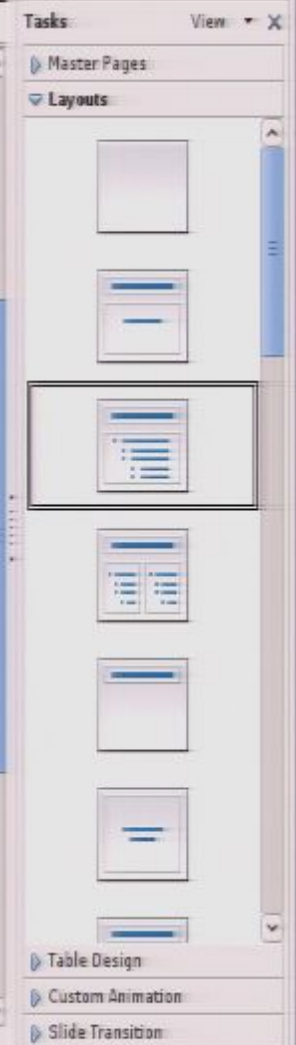


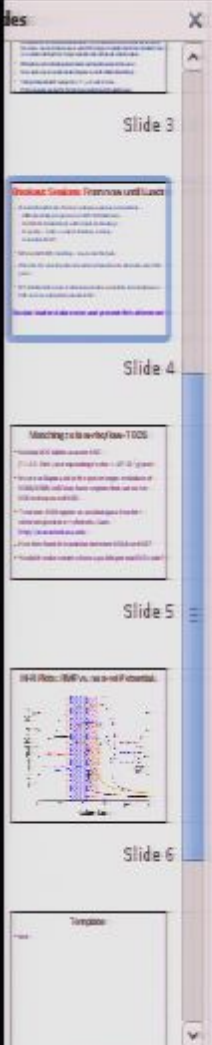
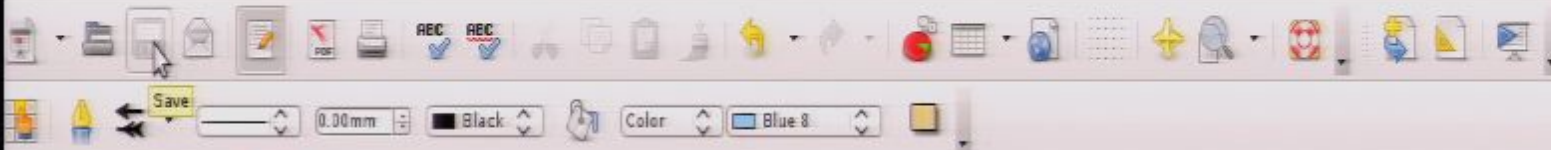


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10:30-11:00 coffee break
11:00-12:30 talks/discussion

Metzger -- Nucleosynthesis and EM afterglow of binary mergers (~20 min)

Discussion: Connecting simulations with nucleosynthesis / EM signature calculations.

Breakout sessions: tackling problems
- Defining standard benchmark problems for simulations with microphysics
- Matching NSE / non-NSE EOS (high/low density EOS)
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12:30-14:30 light/quick lunch and free time
14:30-17:00 talks/discussions/break-out

Horowitz -- NS crust overview (moved from Monday, ~30 min)
Schnetter -- The Einstein Toolkit (~20 min)

Breakout sessions / free time for collaboration
- ?

16:30
Summaries from morning/afternoon breakout sessions

17:00-BBQ

Thursday: Binary Mergers

9:00-10:30 talks/discussion

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Abdikamalov -- Monte Carlo neutrino transport (~20 min)
Fernandez -- Multi-D SASI (~20 min)

Wednesday: Neutrino Microphysics and Nucleosynthesis

9:00-10:30 talks/discussion

Arcones -- (Neutrino-)Nucleosynthesis Overview (~30 min)
Martinez-Pinedo (~20 min)

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Metzger -- Nucleosynthesis and EM afterglow of binary mergers (~20 min)

Discussion: Connecting simulations with nucleosynthesis / EM signature calculations.

Breakout sessions: tackling problems

- Defining standard benchmark problems for simulations with microphysics
- Matching NSE / non-NSE EOS (high/low density EOS)
- Discrepancy between RMF and non-rel. potential EOS below saturation?
- ?

12:30-14:30 light/quick lunch and free time

14:30-17:00 talks/discussions/break-out

Horowitz -- NS crust overview (moved from Monday, ~30 min)
Schnetter -- The Einstein Toolkit (~20 min)

Breakout sessions / free time for collaboration
- ?

16:30

Summaries from morning/afternoon breakout sessions

17:00-BBQ

Thursday: Binary Mergers