

Title: Microphysics in Computational Relativistic Astrophysics - Discussion 2

Date: Jun 21, 2011 11:40 AM

URL: <http://pirsa.org/11060080>

Abstract:

Core Collapse Discussion

- Things to show/compare:
 - compare apples with apples
 - dwell times
 - heating efficiencies
- Discrepancies between results.
- Relevance of individual interactions / quantify?
Are we missing things?
- Transport techniques
- Open source / open physics



Normal Outline Notes Handout Slide Sorter

Slide 7

Matching to low-flow? EOB

- Review the low-flow results
- (1) - 10 min case presentation - off of the line
- to see what we do in the post-processor - reduction of flow time, which is the key to the reduction of the average cost of the
- to see what happens in the post-processor - reduction of flow time - (1) - 10 min case presentation
- to see what happens in the post-processor - reduction of flow time - (1) - 10 min case presentation

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

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Slide 10

Template

Core Collapse Discussion

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Tasks View

Master Pages

Layouts

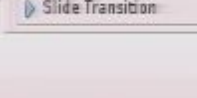
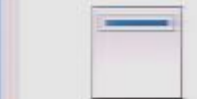
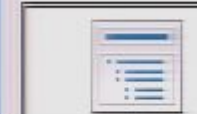
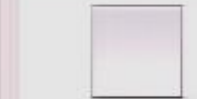
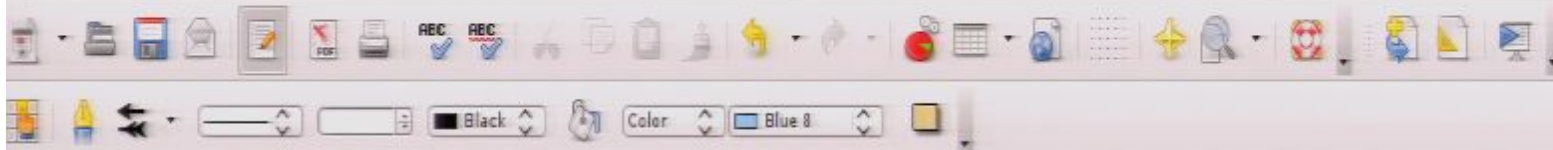


Table Design
Custom Animation
Slide Transition



Slides

Slide 7

Matching to low-flow EOS

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

Slide 10

Template

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

- Things to show/compare:
 - compare apples with apples
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Tasks View

Master Pages

Layouts

Table Design

Custom Animation

Slide Transition



Calibri 32

Slides

Slide 7

Slide 8

Slide 9

Slide 10

Template

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Tasks View

Master Pages

Layouts



Calibri 32 [Font icons]

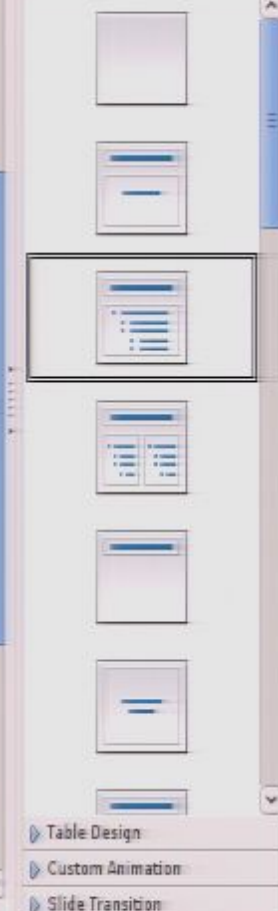
Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Slide 7

Matching to low-flow/low-F EOB

- Review the slide content
- (1) to (10) are the same as the rest of the slides
- to see the slide and to see the page number in the slide sorter, click the slide number in the slide sorter.
- You can also right-click on the slide number in the slide sorter to see the slide content.
- <http://www.openoffice.org>
- How do I know if the slide is the same as the previous one?
- How do I know if the slide is the same as the previous one?

Slide 8

EOS Discussion

Slide 9

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Slide 10

Template

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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

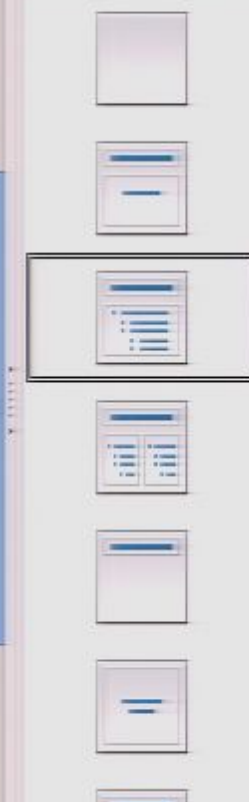


Table Design

Custom Animation

Slide Transition

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Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

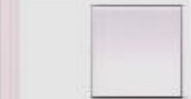


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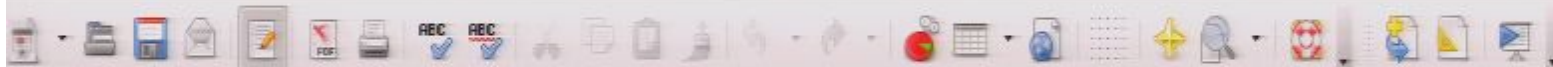
Custom Animation

Slide Transition

Core Collapse Discussion

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 - heating efficiencies
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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Slide 7

Matching to low-flow/low-T EOS

- Review EOS data and results
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- Review EOS data and results

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

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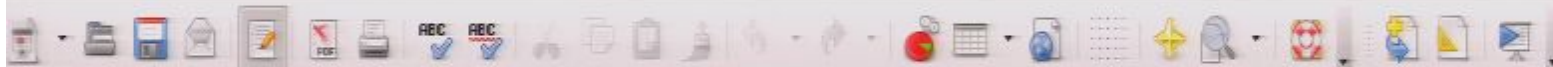
Slide 10

Template

Core Collapse Discussion

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Calibri 32

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

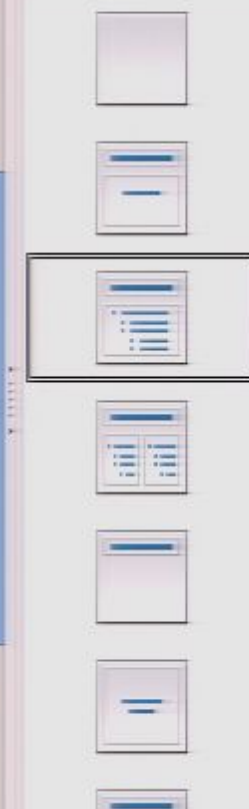


Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Slide 7

Matching to low-flow? ECR

- Review ECR to low flow?
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- Review ECR to low flow? ECR
- Review ECR to low flow? ECR

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

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- compare apples with apples
- how compare in multi-D?
- dwell times
- heating efficiencies
- Discrepancies between results.
- Relevance of individual interactions / quantify?
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Slide 10

Template

Core Collapse Discussion

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 - compare apples with apples
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- Relevance of individual interactions / quantify?
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Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

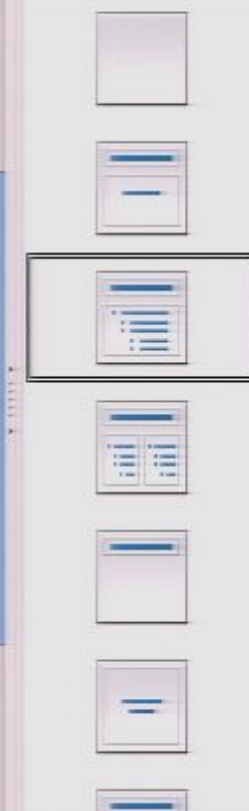


Table Design

Custom Animation

Slide Transition

Slide 7

Matching to low-flow FCS

- Review the low-flow FCS
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- Review the low-flow FCS
- Review the low-flow FCS

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

- Things to show/compare
- Discrepancies between results
- Relevance of individual interactions / quantify?
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- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?

Slide 10

Template

Core Collapse Discussion

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 - dwell times
 - heating efficiencies
- Discrepancies between results.
- Relevance of individual interactions / quantify?
Are we missing things?
- Transport techniques
- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?



Calibri

32

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

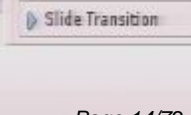
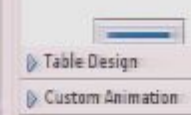
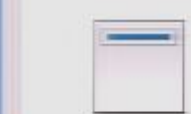
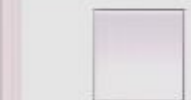


Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

- Things to show/compare:
 - compare apples with apples
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 - have simple cases that are easier to reproduce for baseline
 - dwell times
 - heating efficiencies
- Discrepancies between results.
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Are we missing things?
- Transport techniques
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Slide 7

Matching to low-flow/low-T EOS

- Review EOS data sources
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- Review EOS data sources
- Review EOS data sources
- Review EOS data sources

Slide 8

EOS Discussion

Slide 9

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- Discrepancies between results
- Relevance of individual interactions / quantify?
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- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?

Slide 10

Template



Calibri 32

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

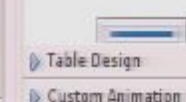
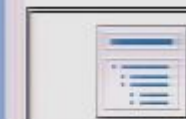
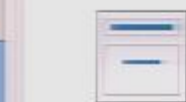


Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

- Things to show/compare:
 - compare apples with apples
 - how compare in multi-D?
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 - dwell times
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- Discrepancies between results.
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Are we missing things?
- Transport techniques
- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?





Calibri 32

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

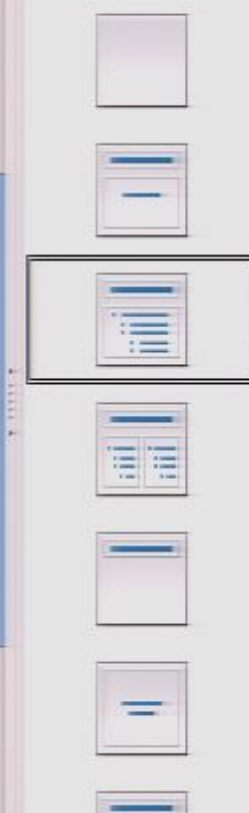


Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

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 - compare apples with apples
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 - have simple cases that are easier to reproduce for baseline tests
- - dwell times
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Calibri 32

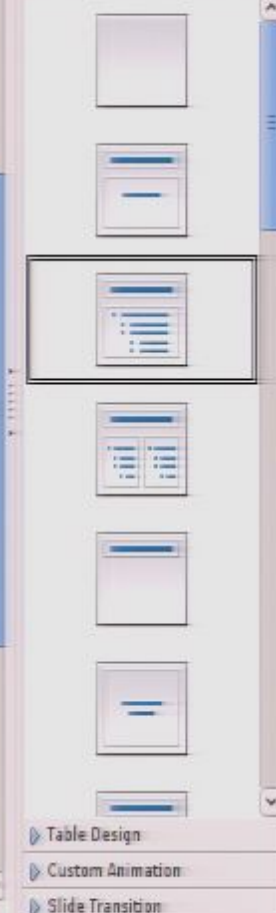
Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Slide 7

Matching to low-flow? EOB

- Review the low-flow test
- Review the low-flow test results
- Review the low-flow test results
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Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

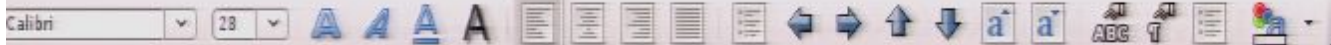
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Slide 10

Template

Core Collapse Discussion

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 - dwell times
 - heating efficiencies
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Are we missing things?
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- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?



Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

- Things to show/compare:
 - compare apples with apples
 - how compare in multi-D?
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 - heating efficiencies
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Are we missing things?
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- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?

Slide 7

Matching to low-flow FDS

- make sure to use the right...
- to use the right...
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Slide 8

Core Discussion

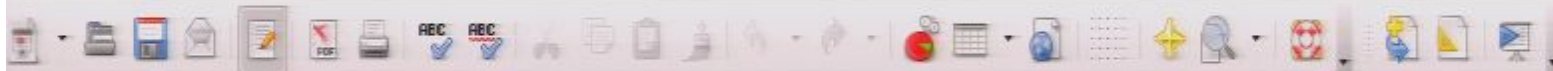
Slide 9

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- heating efficiencies
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- Transport techniques
- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?

Slide 10

Template



Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

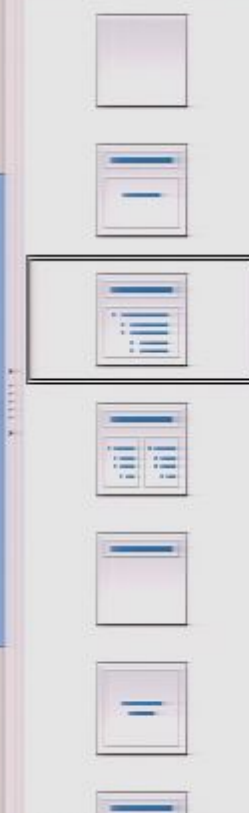


Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

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- Discrepancies between results.
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Are we missing things?
- Transport techniques
- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?





Calibri 28

Slides

Slide 7

Slide 8

Slide 9

Slide 10

Template

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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 - compare apples with apples
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Tasks View

Master Pages

Layouts

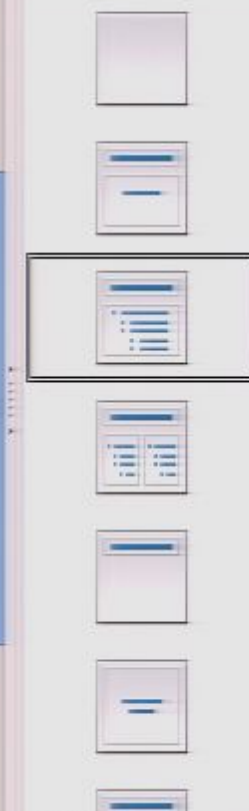
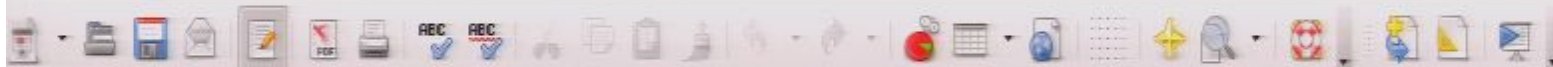


Table Design

Custom Animation

Slide Transition



Calibri 32 [Font icons]

Slides

Slide 7

Matching to low-flow/low-T EOS

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

Slide 10

Template

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Tasks View

Master Pages

Layouts

Table Design

Custom Animation

Slide Transition



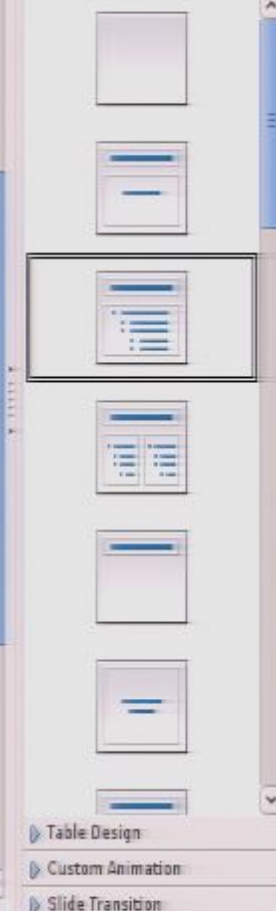
Calibri 32

Normal Outline Notes Handout Slide Sorter

Tasks View

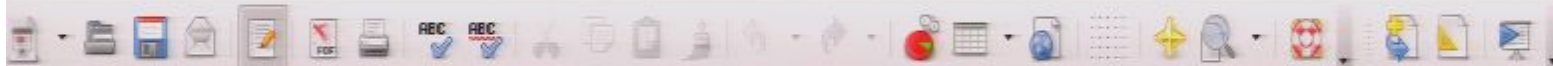
Master Pages

Layouts



Core Collapse Discussion

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Calibri 32

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

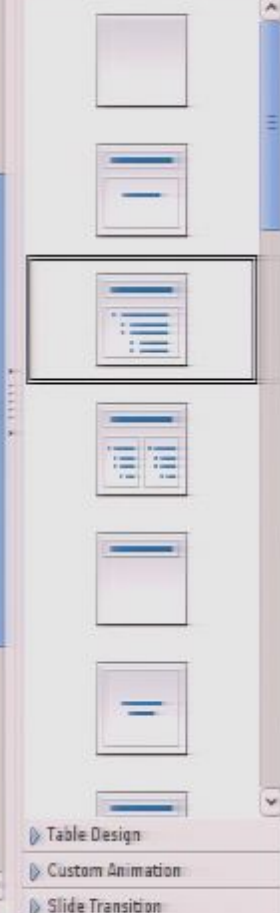


Table Design

Custom Animation

Slide Transition

Core Collapse Discussion

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- Discrepancies between results.
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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Table Design

Custom Animation

Slide Transition

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Calibri 32

Slides

Slide 7

Matching to low-flow? EOS

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

Slide 10

Template

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Tasks View

Master Pages

Layouts

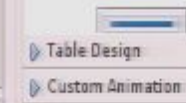
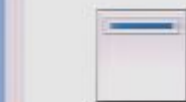
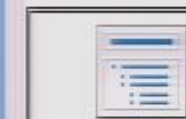
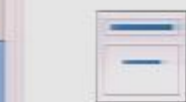
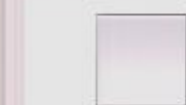


Table Design

Custom Animation

Slide Transition



Calibri 32

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

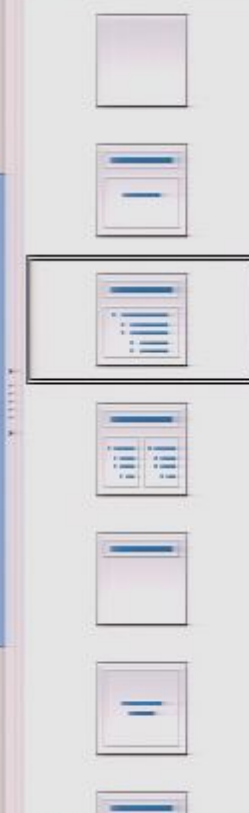


Table Design

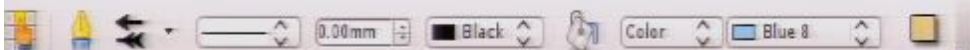
Custom Animation

Slide Transition

Core Collapse Discussion

- Things to show/compare:
 - compare apples with apples
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 - have simple cases that are easier to reproduce for baseline tests
 - IDSA in principle available (contact M. Liebendoerfer)
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 - heating efficiencies
- Discrepancies between results.
- Relevance of individual interactions / quantify?
Are we missing things?
- Transport techniques
- Open source / open physics: WeakLib (ORNL), but can something simpler be done (faster)?





Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

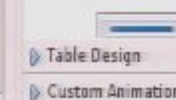
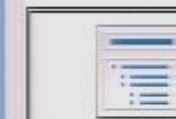


Table Design

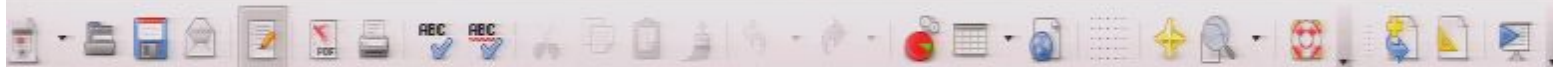
Custom Animation

Slide Transition

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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

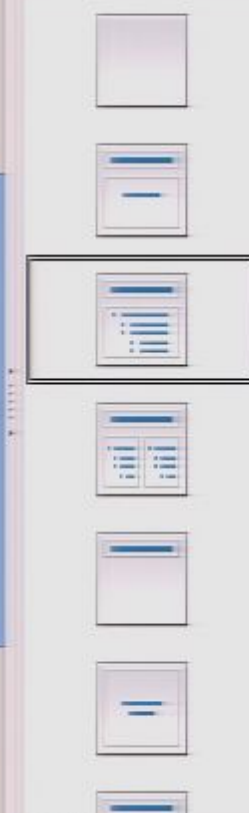


Table Design

Custom Animation

Slide Transition

Slide 7

Matching to low-flow/low-T EOS

- Review EOS data available
- (1) EOS data from gas phase (low T, low P)
- (2) EOS data from liquid phase (high T, high P)
- (3) EOS data from solid phase (high T, high P)
- (4) EOS data from supercritical phase (high T, high P)
- (5) EOS data from critical point (high T, high P)
- (6) EOS data from triple point (high T, high P)
- (7) EOS data from phase transition (high T, high P)
- (8) EOS data from phase transition (high T, high P)
- (9) EOS data from phase transition (high T, high P)
- (10) EOS data from phase transition (high T, high P)

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

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- (7) EOS data from phase transition (high T, high P)
- (8) EOS data from phase transition (high T, high P)
- (9) EOS data from phase transition (high T, high P)
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Slide 10

Template

Core Collapse Discussion

- Things to show/compare:
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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

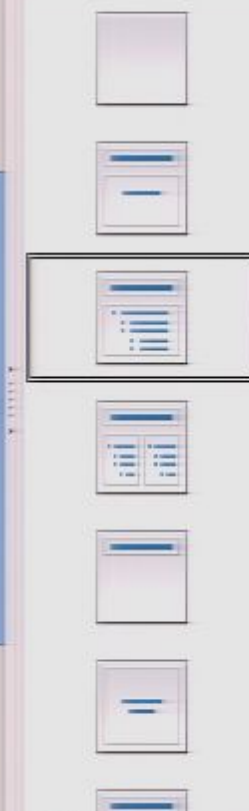


Table Design

Custom Animation

Slide Transition

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Calibri 32 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

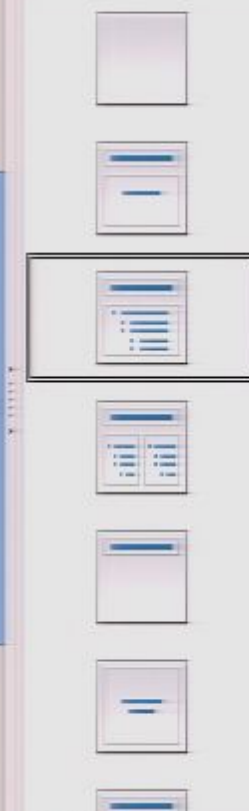


Table Design

Custom Animation

Slide Transition

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Calibri 32 [Font icons]

Slides:

- Slide 7: Matching to low- κ /low- T OS
- Slide 8: OS Discussion
- Slide 9: Core Collapse Discussion
- Slide 10: [Thumbnail]

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Tasks View

Master Pages

Layouts

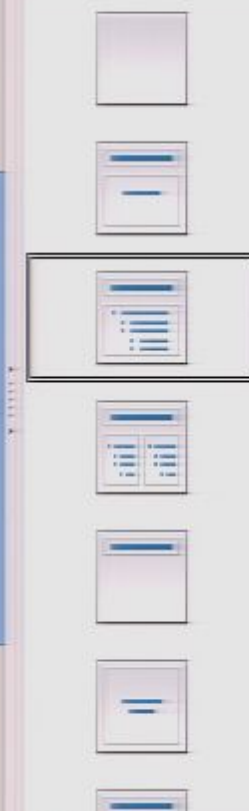
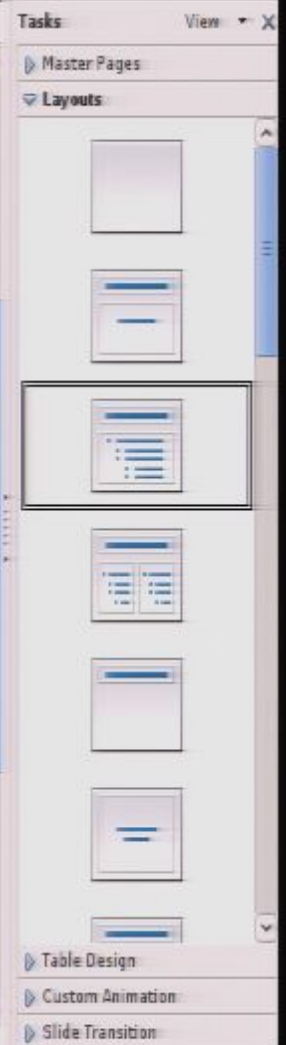


Table Design

Custom Animation

Slide Transition





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Normal Outline Notes Handout Slide Sorter

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Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

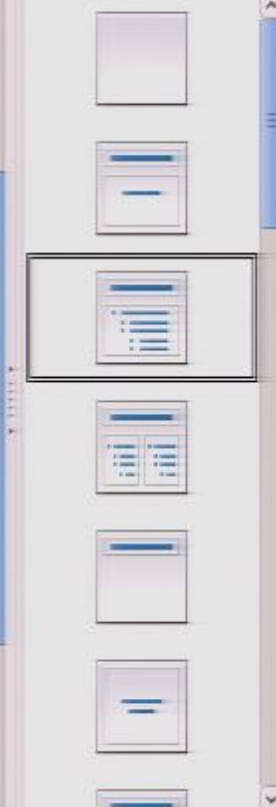


Table Design

Custom Animation

Slide Transition

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Calibri 24 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

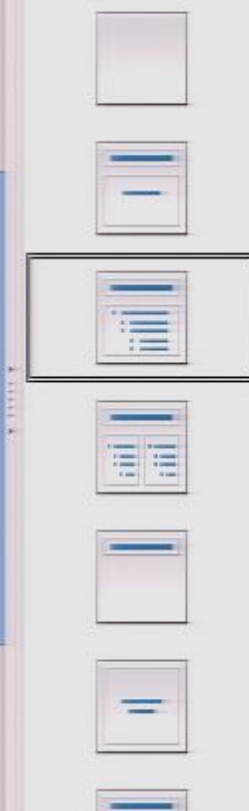


Table Design

Custom Animation

Slide Transition

Slide 7

Matching to low-flow FCB

- make the flow work
- (1) as many as possible off of glyco
- to see what is in the post the other
- the way to do it
- to see what is in the post the other
- the way to do it
- to see what is in the post the other
- the way to do it

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

Slide 10

Template

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- Open source of





Calibri 24 [Font icons]

Slides

Slide 7

Matching to low-flow FCB

Slide 8

EOS Discussion

Slide 9

Core Collapse Discussion

Slide 10

Template

Normal Outline Notes Handout Slide Sorter

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Tasks View

Master Pages

Layouts

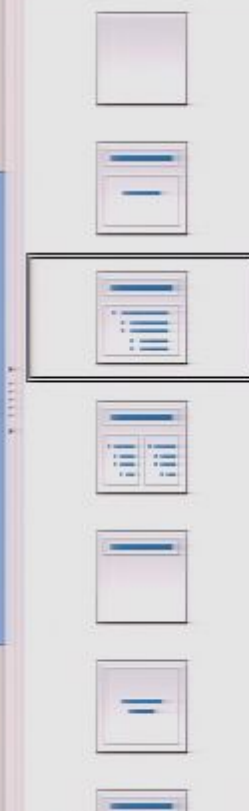


Table Design

Custom Animation

Slide Transition





Calibri 24

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts



Table Design

Custom Animation

Slide Transition

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Calibri 24 [Font icons]

Slides

Normal Outline Notes Handout Slide Sorter

Tasks View

Master Pages

Layouts

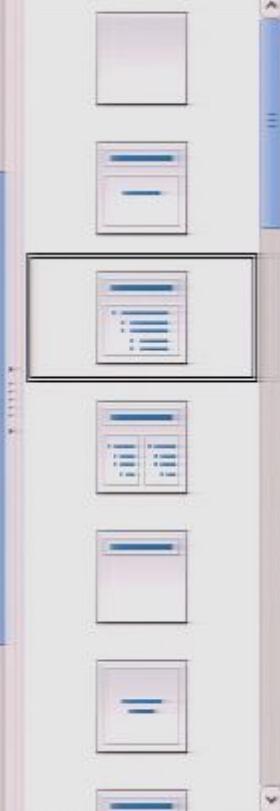


Table Design

Custom Animation

Slide Transition

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$$\eta = \frac{Q^+ - Q^-}{L_{or} + L_{Te}}$$

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$$\eta = \frac{Q^+ - Q^-}{L_{sc} + L_{se}}$$

Laptop battery low
Approximately 20 minutes remaining (12%)

Calibri 24 [Font icons]

Slides

- Slide 7
- 8 Matching to low-threshold I/O
- 9 EOS Discussion
- Slide 9
- 10 Core Collapse Discussion
- Slide 10
- 11 Template

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition

[Drawing and editing tools]

Laptop battery low
Approximately 20 minutes remaining (12%)

Calibri 24 [Font icons]

Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition

[Navigation icons]



Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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 - Open source codes

Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- 8 Matching to low-diffuse FCG
- 9 EOS Discussion
- Slide 9
- 10 Core Collapse Discussion
- Slide 10
- 11 Template

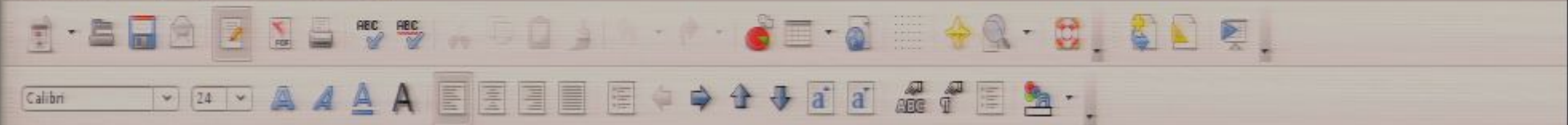
Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

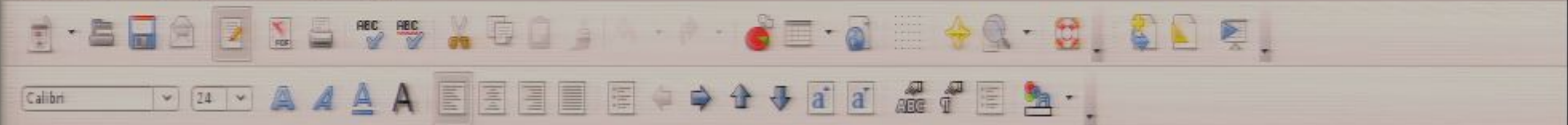
Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition

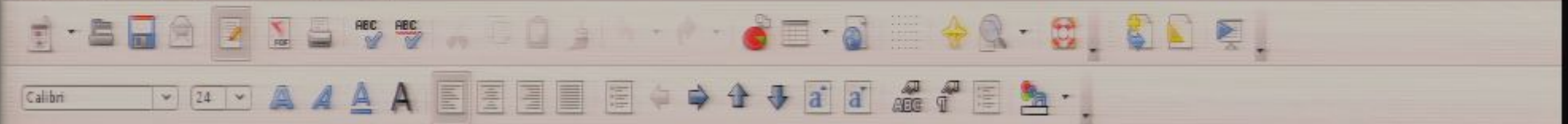


Normal Outline Notes Handout Slide Sorter

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Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

Slide 7

8 Matching to low-dwell FDS

Slide 8

9 EOS Discussion

Slide 9

10 Core Collapse Discussion

Slide 10

11 Template

Normal Outline Notes Handout Slide Sorter

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Tasks

Master Pages

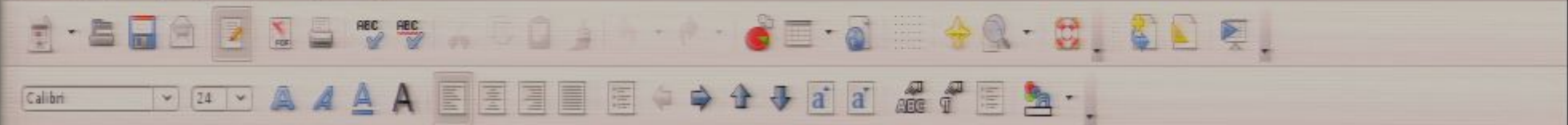
Layouts

Table Design

Custom Animation

Slide Transition



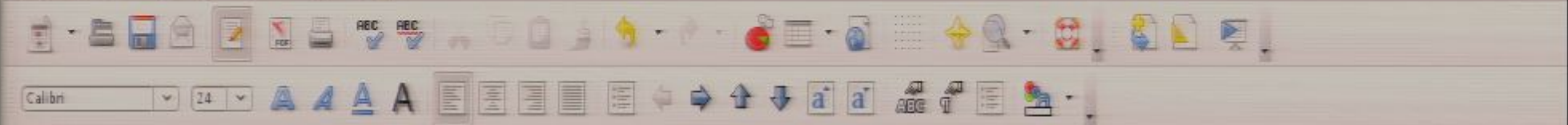


Normal Outline Notes Handout Slide Sorter

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Normal Outline Notes Handout Slide Sorter

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Laptop battery critically low
Computer will hibernate very soon unless it is plugged in.

Calibri 24 [Font icons]

Slides
Slide 7
8
9
Slide 9
10
Slide 10
11

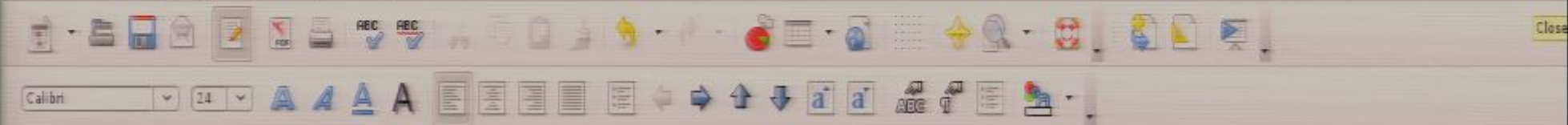
Normal Outline Notes Handout Slide Sorter

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Tasks
Master Pages
Layouts
Table Design
Custom Animation
Slide Transition

[Navigation icons]



Slides

- Slide 7
- 8 Matching to low-dwell FDS
- Slide 8
- 9 EOS Discussion
- Slide 9
- 10 Core Collapse Discussion
- Slide 10
- 11 Template

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition

Laptop battery low
Approximately 5 minutes remaining (3%)

Calibri 24 [Font icons]

Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition

[Navigation icons]



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

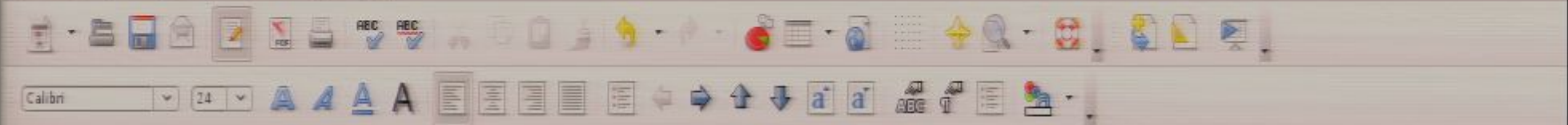
Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Normal Outline Notes Handout Slide Sorter

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Normal Outline Notes Handout Slide Sorter

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Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

Core Collapse Discussion

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Normal Outline Notes Handout Slide Sorter

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Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

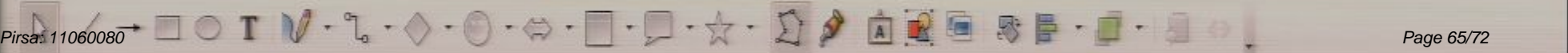
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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition





Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

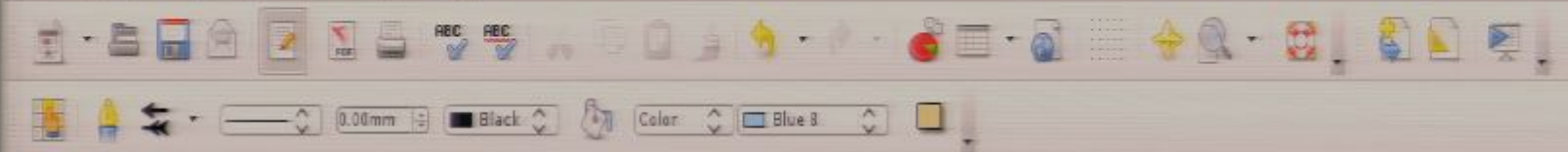
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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition





Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

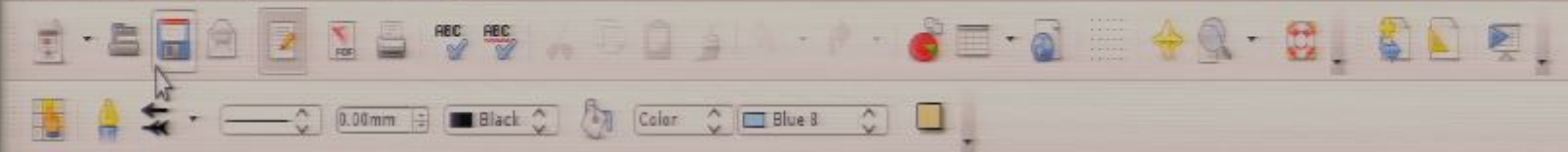
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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition



Slides

- Slide 7
- Slide 8
- Slide 9
- Slide 10
- Slide 11

Normal Outline Notes Handout Slide Sorter

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Tasks

- Master Pages
- Layouts
- Table Design
- Custom Animation
- Slide Transition





Normal Outline Notes Handout Slide Sorter

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