Title: Opening Remarks

Date: Jul 20, 2017 09:00 AM

URL: http://pirsa.org/17070003

Abstract:

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Welcome to Perimeter Institute "New Ideas..." workshop

Organizing committee:

John B, Mark C, MP and Joe B

(with thanks to Laura and Stephanie)

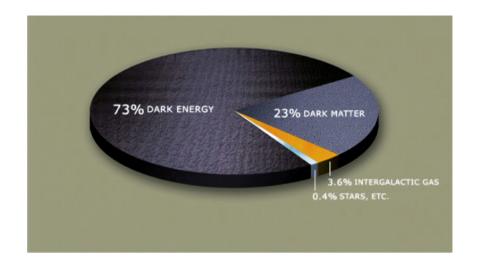


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Big Questions in Physics



These problems are so complex that we can spend the rest of our careers trying to solve them

- 1. Too many good solutions for DM
- 2. Too few (apart from Λ) good solutions for DE

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Main questions

- No satisfactory solution will ever come without an experimental verification.
- Are we doing everything possible to address the missing energy/ missing mass problem?

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- With significant investment into the underground and neutrino physics ($N_{underground\ labs} >> 1$, $N_{large\ neutrino\ detectors} >> 1$) do we use these facilities to the fullest?
- New signatures; novel uses of the existing detectors; altogether new experiments?
- What should be the interaction of theory and experiment look like going forward?
- Are there any new creative uses of superb experimental conditions at SNOLAB?

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- Talks are recorded ← place for "new and creative"
- Discussion sessions are not recorded ← place for "crazy"

Let's have a productive workshop!

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