

Title: Welcome and Opening Remarks

Date: Jun 26, 2017 10:00 AM

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Abstract:

Bounce Questions

- What is the new physics responsible for the bounce?
- Might this new physics resolve the singularity for perturbations and background?
- Does this new physics have any observational signature?
- What general principles underlie the theory, beyond wanting to resolve the singularity?
- Does a consistent picture for cosmology require that both background and perturbations are quantized?
- Does the bounce or pre-bounce phase help in setting initial conditions?
- What are the common features of different cosmological bounce scenarios?
- Can they be classified in a useful way?

Questions speakers were asked to address:

- 1 & 2 Is novel physics required for replacing big-bang by bounce & reciprocally, ...
- 3 Is the bounce determined in classical spacetimes or is quantum physics essential?
- 4 Conceptual & technical issues when big-bang is replaced by big bounce
- 5 Initial conditions?
- 6 Observational tests?

1. What is the new physics responsible for the bounce?
2. Might this new physics resolve the singularity for the pert's as well as the background?
3. Does this new physics have any observational signature?
4. What general principles underlie the theory, beyond wanting to resolve the singularity?
5. Does a consistent picture for cosmology require that both the background and the pert's are quantized?
6. Does the bounce or ~~pre~~-bounce phase help in setting initial conditions?

7. What are the common features of different cosmological bounce scenarios?
8. Can they be classified in a useful way?

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