

# Self Adjoint Extensions and Singularity Resolution in String Theory and Quantum Gravity

## Monday

9.00-9.15 Introduction to BIRS

9.15-10.00 Cosmologist's view of the singularity problem (RB)

10.00-10.30 Coffee break

10.30-11.30 Light-like AdS/CFT approach (Sumit Das)

11.30-12.30 Time-like AdS/CFT approach (Misha Smolkin)

lunch break

14:30 - 15:15 M. Smolkin (continued)

16:00 - 17:15 M. Bojowald

17:15 - 17:30 Discussion of the further program

## Tuesday

9:00 - 9:30 M. Bojowald (continued)

9:30 - 10:30 W. Craig Weyl's limit point - limit cycle theory

10:30 - 11:00 coffee break

11:00 - 12:00 O. Saremi AdS/CFT tutorial

PM free

## Wednesday

9:00 - 10:00 J. Yngvason Tutorial on self-adjoint extensions

10:00 - 10:45 W. Kaminsky Non-self-adjointness in constraint systems

10:45 - 11:15 coffee break

11:15 - 12:00 T. Pawloski Singularity resolution in dust quantum  
cosmology

14:30 - 15:30 N. Kamran and J. Wunsch Stability Issues

## **Thursday**

9:00 - 9:45 D. Lowe Embedding expanding bubbles using AdS/CFT

9:45 - 10:30 S. Vaidya Review of Marolf/Horowitz work

10:30 - 11:00 coffee break

11:00 - 12:00 group synthesis

PM: TBA

**Friday AM:** work sessions