Black Holes: Theoretical, Mathematical and Computational aspects

Arriving Sunday, November 9 and departing Friday, November 14, 2008

MEALS

- *Breakfast (Buffet): 7:00 am 9:30 am, Sally Borden Building, Monday-Friday
- *Lunch (Buffet): 11:30 am 1:30 pm, Sally Borden Building, Monday-Friday
- *Dinner (Buffet): 5:30 pm 7:30 pm, Sally Borden Building, Sunday-Thursday
- *Coffee Breaks: As per daily schedule, 2nd oor lounge, Corbett Hall
- *Please remember to scan your meal card at the host/hostess station in the dining room for each meal.

MEETING ROOMS

All lectures will be held in Max Bell 159 (Max Bell Building accessible by walkway on 2nd floor of Corbett Hall). LCD projector, overhead projectors and blackboards are available for presentations. Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

SCHEDULE

Sunday, November 9

16:00 Check-in begins (Front Desk - Professional Center - open 24 hours) 17:30-19:30 Dinner

Monday, November 10

8:45-9:00 Openning. Introduction and Welcome to BIRS.

9:00-9:50 Myers, Robert (Perimeter Institute) "Viscosity Bounds and Causality Violations in Higher Derivative Gravity"

9:50-10:40 Yoshino, Hirotaka (University of Alberta) "The Randall-Sundrum II black holes"

10:40-11:00 Coffee Break

11:00-11:50 Kim, Sang Pyo (APCTP) "Hawking Radiation as Local Geometrical Effects"

12:00-13:30 Lunch

13:30-14:00 Connell, Patrick (University of Alberta) "Parallel Transport along Geodesics in the Higher Dimensional Kerr-NUT-(A)dS Spacetime"

14:00-14:30 Cuzinatto, Rodrigo (University of Alberta) "Interacting Constituents in Cosmology"

14:30-17:30 Informal Discussions

17:30-19:30 Dinner

19:30-20:20 Frolov, Valeri (University of Alberta) "Dark Side of Extra Dimensions and Hidden Symmetries"

Tuesday, November 11

9:00-9:50 Sasaki, Misao (Kyoto University) "Primordial black hole formation after inflation"

9:50-10:40 Poisson, Eric (University of Guelph) "Black holes in tidal environments"

10:40-11:00 Coffee Break

11:00-11:50 Shibata, Masaru (University of Tokyo) "Simulating coalescence of binary compact objects"

11:50 Group Photo; meet on the front steps of Corbett Hall

12:00-13:30 Lunch

13:30-14:20 Murata, Keiju (Kyoto University) "Instabilities of $Kerr - AdS_5xS^5$ spacetime"

14:30-17:30 Informal Discussions

17:30-19:30 Dinner

19:30-20:20 Page, Don (University of Alberta) "Geodesic Motion Around Higher Dimensional Black Holes is Completely Integrable"

Wednesday, November 12

9:00-9:50 Kang, Gungwon (Korea Institute of Science and Technology Information) "Gregory-Laflamme instability and hypercylindrical solutions with tensions"

9:50-10:40 Park, Seong Chan (Seoul National University, IPMU) "A review of topics on the micro black holes at the LHC: safety, signals, a room for future progress"

10:40-11:00 Coffee Break

11:00-11:50 Unruh, Bill (University of British Columbia) "Dumb Holes—Numerical and Analytic Temperatures"

12:00-13:30 Lunch

13:30-14:00 Shoom, Andrey (University of Alberta) "Interior of Distorted Reissener-Nordstrom Black Hole"

14:00-14:30 Abdolrahimi, Shohreh (University of Alberta) "The singularity "inner structure"

14:30-17:30 Informal Discussions

17:30-19:30 Dinner

19:30-20:20 Semenoff, Gordon (University of British Columbia) "Matrix model - black string"

Thursday, November 13

9:00-9:50 Mann, Robert (University of Waterloo) "Solitons, Stability, Solutions, and Saturn: Adventures in 5D Gravity"

9:50-10:40 Kunz, Jutta (University of Oldenburg) "Black-hole black-string transitions?"

10:40-11:00 Coffee Break

11:00-11:50 Lee, Hyun Kyu (Hanyang University) "Thermodynamic constraints on black hole formation"

12:00-13:30 Lunch

14:30-17:30 Informal Discussions

17:30-19:30 Dinner

19:30-20:20 Kimura, Masashi (Osaka City University) "Five dimensional black holes with non-trivial asymptotic structure"

Friday, November 14

9:00-9:50 Dan Gorbonos (University of Alberta) "On Wald's Entropy"

 $\bf 9:50\text{-}10:40$ Zelnikov, Andrei (University of Alberta) "Gyratons on Spacetimes of Constant Curvature"

10:40-11:00 Coffee Break

11:00-11:30 Discussions

11:30-13:30 Lunch

Checkout by 12 noon