

**Dynamics of General Relativity:
Black holes and Asymptotics**

December 10 - 21, 2012

organised by: Lars Andersson, Robert Beig, Mark Heinzle, Sascha Husa

Workshop Schedule, December 11 - 20, 2012**Week 1**• **Tuesday, December 11, 2012**

14:00 – 14:55: Juliette Hell

Anisotropic Einstein data with isotropic nonnegative prescribed scalar curvature

15:00 – 15:55: Joao Costa

The problem of a self-gravitating scalar field with positive cosmological constant• **Wednesday, December 12, 2012**

14:00 – 14:55: Sergio Dain

The wave equation on the extremal Reissner-Nordström black hole

15:00 – 15:55: Piotr Bizon

A remark on 'instability' of the extremal Reissner-Nordström black hole• **Thursday, December 13, 2012**

14:00 – 14:55: David Hilditch

Compact binary evolutions in Z_4c and constraint preserving boundary conditions

15:00 – 15:55: Stephen Lau

Towards implicit-explicit simulations of blackholes• **Friday, December 14, 2012**

14:00 – 14:55: Harald Pfeiffer

Binary black hole simulations: status and recent advances

15:00 – 15:55: Jeremie Joudioux

*Hertz potentials and the decay of massless fields***Week 2**• **Monday, December 17, 2012**

14:00 – 14:55: Helmuth Friedrich

A formal expansion of purely radiative vacuum solutions at past timelike infinity

15:00 – 15:55: Maciej Maliborski

Dynamics of a Yang–Mills field in the Einstein cosmos• **Tuesday, December 18, 2012**

14:00 – 14:55: Olivier Sarbach

Initial-boundary value formulations for Einstein's field equations

15:00 – 15:55: Anil Zenginoglu

Green functions and caustic echoes from black holes

- **Wednesday, December 19, 2012**

14:00 – 14:55: Vince Moncrief

Lightcone estimates for spacetime curvature

15:00 – 15:55: Gerhard Rein

Equilibrium configurations of self-gravitating matter distributions

- **Thursday, December 20, 2012**

14:00 – 14:55: Gerhard Schäfer

Dynamics of binary systems in Hamiltonian general relativity

All lectures take place at the ESI Boltzmann Lecture Hall