

**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 $Z4c$ and constraint preserving boundary conditions***15:00 – 15:55:** Stephen Lau*Towards implicit-explicit simulations of blackholes***• Friday, December 14, 2012****11:30 – 12:30:** István Rácz*On the existence of parallelly propagated curvature singularities along the null generators of non-extremal event horizons of distorted black hole configurations***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: Helmut 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**

11:30 – 12:30 Mikolaj Korzynski

Cubic black hole lattices: initial data and evolution

14:00 – 14:55: Vincent Moncrief

Constrained propagation of spherically symmetric Einstein-Yang-Mills Fields out of Scri

15:00 – 15:55: Gerhard Rein

Equilibrium configurations of self-gravitating matter distributions

- **Thursday, December 20, 2012**

11:30 – 12:30: Gerhard Schäfer

Dynamics of binary systems in Hamiltonian general relativity

All lectures take place at the ESI Boltzmann Lecture Hall