

Program of « Nonlinear Wave Equations »,  
IHP, Paris, May 21 – May 24, 2013

Tuesday

9 :15-10 :15 Frank Merle, « Solitons decomposition for global solution of the critical focusing wave equation in the radial case »

10 :15-10 :45 Coffee break

10 :45-11:45 Pieter Blue, « Decay for Maxwell's equations outside a slowly rotating black hole »

11 :45-12 :45 Fabrice Planchon, « Geometric uniqueness for the Cauchy problem in general relativity »

12 :45-15 :00 Lunch break

15 :00-16 :00 Gustave Holzegel, « Existence of Dynamical Vacuum Black Holes »

16 :00-16 :30 Coffee break

16 :30-17 :30 Sung-Jin Oh, « Finite energy global well-posedness of the non-abelian Chern-Simons-Higgs equations using a Yang-Mills heat flow gauge »

Wednesday

9 :15-10 :15 Lars Andresson, « Symmetry operators and conserved quantities »

10 :15-10 :45 Coffee break

10 :45-11:45 Jean-Marc Delort, « Global solutions of water waves equations in 1 dimension »

11 :45-12 :45 Chung-Tse Arick Shao, « Null Cones to Infinity, Curvature Flux, and Bondi Mass »

12 :45-15 :00 Lunch break

15 :00-16 :00 Joachim Krieger, TBA

16 :00-16 :30 Coffee break

16 :30-17 :30 Jonathan Luk, « A fully anisotropic trapped surface formation criterion »

## Thursday

- 9 :15-10 :15 Jacob Sterbenz, « Local energy decay for Maxwell fields on spherical black holes »
- 10 :15-10 :45 Alex Ionescu, « On the existence of global solutions of certain fluid models »
- 10 :45-11:45 Coffee break
- 11 :45-12 :45 Jacques Smulevici, « Sharp decay estimates for the Klein-Gordon equation on Kerr-AdS »
- 12 :45-15 :00 Lunch break
- 15 :00-16 :00 Pierre Raphael, TBA
- 16 :00-16 :30 Coffee break
- 16 :30-17 :30 Igor Rodnianski, TBA
- 19 :00-22 :00 Conference dinner

## Friday

- 9 :15-10 :15 Mihalis Dafermos, TBA
- 10 :15-10 :45 Stefanos Aretakis, « Conservation laws for the wave equation and applications»
- 10 :45-11:45 Coffee break
- 11 :45-12 :45 Nicolas Burq, « The water-waves system. Microlocal analysis in local spaces »