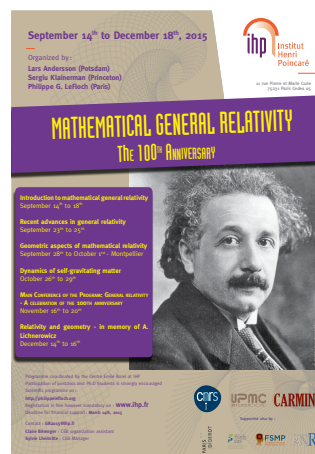


« **Mathematical General Relativity** »
Paris, September 14th – December 18th, 2015

General Relativity : A Celebration of the 100th Anniversary
Paris, November 16th – 20th, 2015

Amphitheater Hermite



Organizers :

Lars Andersson (Potsdam), **Sergiu Klainerman** (Princeton), **Philippe G. LeFloch** (Paris)

Speakers :

Jean-Pierre Bourguignon (Bures-sur-Yvette)

Demetrios Christodoulou (Zürich & Athens)

Mihalis Dafermos (Princeton)

Thibault Damour (Bures-sur-Yvette)

Georges Ellis (Cape Town)

Gustav Holzegel (London)

Jonathan Luk (Cambridge, UK)

Roger Penrose (Oxford)

Richard Schoen (Stanford & Irvine)

Jacques Smulevici (Orsay)

Jérémie Szeftel (Paris)

Robert Wald (Chicago)

Qian Wang (Oxford)

SCIENTIFIC PROGRAM

Monday November 16th

9.00 am – 9.30 am	Registration	<i>IHP ground floor</i>
9.30 am – 10.30 am	Robert Wald	Dynamic and Thermodynamic Stability of Black Holes and Black Branes
10.30 am – 11.00 am	<i>Coffee break</i>	<i>IHP ground floor</i>
11.00 am – 12.00 pm	Jean-Pierre Bourguignon	General Relativity and Geometry, Interactions and Missed Opportunities
12.00 pm – 2.00 pm	Lunch break	
2.00 pm – 3.00 pm	Roger Penrose	Palatial Twistor Theory: a Quantum Approach to Classical (and Quantum?) Space-Time
3.00 pm – 3.30 pm	<i>Coffee break</i>	<i>IHP ground floor</i>
3.30 pm – 4.30 pm	Richard Hamilton	TBA

Tuesday November 17th

9.30 am – 10.30 am	Mihalis Dafermos	The stability problem for black holes and the cosmic censorship conjectures
10.30 am – 11.00 am	<i>Coffee break</i>	<i>IHP ground floor</i>
11.00 am – 12.00 pm	Jonathan Luk	Interior of Dynamical Vacuum Black Holes
12.00 pm – 2.00 pm	Lunch break	
2.00 pm – 3.00 pm	J�r�mie Szeftel	Recent Progress On The Evolution Problem In General Relativity
3.00 pm – 3.30 pm	<i>Coffee break</i>	<i>IHP ground floor</i>
3.30 pm – 4.30 pm	Qian Wang	Global Existence for the Einstein Equations with Massive Scalar Fields

Wednesday November 18th

- 2.00 pm – 3.00 pm *Movie : « Einstein et la relativit  g n rale, une histoire singuli re » (English subtitles) (Amphitheater Hermite)*
- 5.30 pm : *Ceremony in honor of Y. Choquet-Bruhat (hold at IHES, Bures-sur-Yvette)*

Thursday November 19th

9.30 am – 10.30 am	Jacques Smulevici	Dynamics in asymptotically AdS spacetimes
10.30 am – 11.00 am	<i>Coffee break</i>	<i>IHP ground floor</i>
11.00 am – 12.00 pm	Gustav Holzegel	The Linear Stability of the Schwarzschild Solution Under Gravitational Perturbations
12.00 pm – 2.00 pm	Lunch break	

2.00 pm – 3.00 pm **Thibault Damour** Through a Glass Darkly: the Structure of Cosmological Singularities
3.00 pm – 3.30 pm Coffee break *IHP ground floor*
3.30 pm – 4.30 pm **Demetrios Christodoulou** The Formulation of the Two-Body Problem in General Relativity

6.00 pm **Buffet Dinner Reception** *IHP ground floor*

Friday November 20th

9.30 am – 10.30 am **Georges Ellis** The Steps Along The Way Whereby Einstein's General Theory Enabled The Rise of Present Day
Cosmology
10.30 am – 11.00 am Coffee break *IHP ground floor*
11.00 am – 12.00 pm **Richard Schoen** Localizing Solutions of the Einstein Equations
12.00 pm (end of the Conference)

Abstracts are available on the website of the Trimester « Mathematical General Relativity » : <http://philippefloch.org>