

Gravitational Waves, Relativistic Astrophysics and Cosmology

IHP, Centre Emile Borel, Paris

A trimester intended for graduate students, postdocs as well as researchers

**September 18
December 15
2006**

Organizers:

Thibault Damour (IHÉS)
Nathalie Deruelle (IHÉS)

Co-organizers:

Luc Blanchet (IAP)
Cédric Deffayet (APC)
Eric Gourgoulhon (Obs. Paris)
Jean-Pierre Lasota (IAP)
Jean-Yves Vinet (OCA)

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Five Introductory Courses (One course = 16 hours)

- *General Relativity: a Primer*, **N. Deruelle** (IHÉS)
- *Relativistic Astrophysics*, **J.P. Lasota** (IAP)
- *Cosmology*, **J. Silk** (Oxford) and **J.P. Uzan** (IAP)
- *Gravitation: theories and experiments*, **C.M. Will** (WUSL), **G. Esposito-Farèse** (IAP)
- *Advanced General Relativity*, **T. Damour** (IHÉS)

Three Advanced Courses (One course = 16 hours)

- *Experimental Gravity*, **F. Everitt** (Stanford) and **J.Y. Vinet** (OCA)
- *Theory of Gravitational Wave Emission*, **L. Blanchet** (IAP)
- *Numerical Relativity*, **E. Gourgoulhon** (Obs. Paris)

About Twenty Short Courses on Advanced Topics

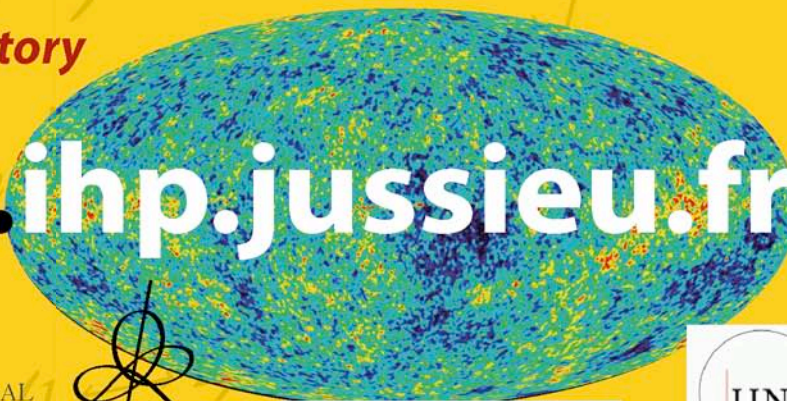
- F. Bouchet** (IAP), **A. Brillet** (Nice), **A. Buonanno** (Maryland and APC)
Y. Choquet-Bruhat (Paris 6), **C. Deffayet** (APC), **S. Deser** (Brandeis)
J. Eisenstaedt (Obs. Paris), **G. Gibbons** (Cambridge), **P. Haensel** (Varsovie)
M. Henneaux (Bruxelles), **B. Iyer** (Bangalore), **E. Kolb** (Chicago)
Y. Mellier (IAP), **R. Mochkovitch** (IAP), **E. Mueller** (Munich)
V. Mukhanov (Munich), **R. Ruffini** (Rome), **M. Sasaki** (Kyoto)
B.S Sathyaprakash (Cardiff), **G. Schäfer** (Iena), **B. Schutz** (Golm)
A.A Starobinsky (Moscou)

Three Workshops (One week each)

- From Geometry to Numerics;** Coordinator: **E. Gourgoulhon**
Gravitational Wave Data Analysis; Coordinator: **L. Blanchet**
High energy, Cosmology and Strings; Coordinator: **C. Deffayet**

Free but mandatory registration at :

www.ihp.jussieu.fr/ceb



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