

École Thématique/School and Workshop

**Résonances et orbites périodiques: spectre et fonctions
zêta du chaos quantique et classique.**

**Resonances and Periodic Orbits: Spectrum and Zeta Functions
in Quantum and Classical Chaos.**

June 27 to July 5, 2005

Institut Henri Poincaré, 11 rue Pierre et Marie Curie, 75005 Paris - France

Courses:

V. BALADI (Jussieu): *Spectra of differentiable hyperbolic maps*

Y. COLIN DE VERDIÈRE (Grenoble): *Determinants of Sturm-Liouville operators
and the semi-classical trace formula*

F. FAURE (Grenoble): *Quantum hyperbolic maps on the torus.*

Examples of non quantum unique ergodicity and role of periodic orbits

J. MARKLOF (Bristol): *Energy level statistics, lattice point problems, and ergodic theory*

F. NAUD (Berkeley): *Spectra of differentiable hyperbolic flows (Dolgopyat theory)*

H.H. RUGH (Cergy): *Spectra of analytic hyperbolic maps and flows: Correlation functions,
Fredholm determinants, and zeta functions*

M. ZWORSKI (Berkeley): *Counting zeros of zeta functions*

Speakers (tentative list):

N. Anantharaman (ENS Lyon & IHP), S. de Bièvre (Lille), J.-M. Bismut (Orsay),

U. Bunke (Göttingen), P. Cvitanovic (GeorgiaTech), C. Dettmann (Bristol),

D. Delande (Jussieu), P. Kurlberg (KTH Stockholm), P. Leboeuf (Orsay),

E. Lindenstrauss (Princeton), D. Mayer (Clausthal), S. Nonnenmacher (Saclay),

M. Pollicott (Warwick), Z. Rudnick (Tel Aviv), P. Sarnak (Courant),

D. Zagier (Collège de France-Max Planck), S. Zelditch (Johns Hopkins), ...

For continuously updated information, see: www.math.jussieu.fr/~baladi/ecole.html

Organizers :

V. Baladi (Jussieu), E. Bogomolny (LPTMS), Y. Colin de Verdière (Grenoble),

M. Combescure (Lyon), F. Ledrappier (Notre Dame), A. Voros (Saclay)

Registration : web site of IHP www.ihp.jussieu.fr

Further info: Secrétariat du Centre Émile Borel, Tél. : (33/0)1 44 27 67 75,

Fax : (33/0)1 44 07 09 37, e-mail : ergon@ihp.jussieu.fr

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