

# Semiclassical Analysis and Non-self-adjoint Operators

14-18 December 2015

<b>14 December</b>	
15:00	Duong Phong (Columbia University) <i>Non-linear partial differential equations in complex geometry</i>
16:00	Semyon Dyatlov (MIT) <i>Spectral gaps via additive combinatorics</i>
<i>17:00 — 17:30 Coffee break</i>	
17:30	Vesselin Petkov (Université de Bordeaux) <i>Location and Weyl formula for the eigenvalues of non self-adjoint operators</i>
<b>15 December</b>	
9:00	Oana Ivanovici (Université de Nice) <i>Dispersion estimates for the wave and the Schrodinger equations outside strictly convex obstacle</i>
<i>10:00 — 10:30 Coffee break</i>	
10:30	Andras Vasy (Stanford University) <i>The Feynman propagator and its positivity properties</i>
11:30	Maxime Ingremeau (Université Paris-Sud) <i>Distorted plane waves in chaotic scattering</i>
<i>12:30 Lunch</i>	
15:00	Shu Nakamura (University of Tokyo) <i>High energy asymptotics of the scattering matrix for Schroedinger and Dirac operators</i>
16:00	Rémi Léandre (Université de Franche-Comté) <i>Malliavin Calculus of Bismut type for an operator of order four on a Lie group</i>
<i>17:00 — 17:30 Coffee break</i>	
17:30	Frédéric Klopp (Université Pierre et Marie Curie) <i>Stark-Wannier ladders and cubic exponential sums</i>
<b>16 December</b>	
9:00	Galina Perelman (Université Paris-Est) <i>Near soliton dynamics for the energy critical NLS</i>
<i>10:00 — 10:30 Coffee break</i>	
10:30	Peter Topalov (Northeastern University) <i>Generic non-selfadjoint Zakharov-Shabat operators</i>
11:30	Anne-Sophie de Suzzoni (Université Paris 13) <i>Turning invariant measures on the torus into invariant measures on the line by passing to the limit</i>
<i>12:30 Lunch</i>	
<i>Free afternoon</i>	
<b>17 December</b>	
9:00	Jean-Pierre Eckmann (Université de Genève) <i>Classical Hamiltonian Systems, Driven out of Equilibrium a Review</i>
<i>10:00 — 10:30 Coffee break</i>	
10:30	Jeremy Faupin (Université de Lorraine) <i>Scattering theory for Lindblad operators</i>
11:30	Claude-Alain Pillet (Université de Toulon) <i>Nonequilibrium statistical mechanics of harmonic networks</i>
<i>12:30 Lunch</i>	
16:00	Petr Siegl (Bern Mathematical Institute) <i>Convergence of pseudospectra, constant resolvent norm and Schrödinger operators with complex potentials</i>
<i>17:00 — 17:30 Coffee break</i>	
17:30	Colin Guillarmou (ENS Paris) <i>Invariant distributions and injectivity of X-ray transform for Anosov flows</i>
<b>18 December</b>	
9:00	Alain Grigis (Université Paris 13) <i>Resonance widths for general Helmholtz resonators with straight neck</i>
<i>10:00 — 10:30 Coffee break</i>	
10:30	Sylvia Serfaty (Université Pierre et Marie Curie) <i>Mean Field Limits for Ginzburg-Landau Vortices</i>
11:30	André Martinez (Università di Bologna) <i>Estimates on the molecular dynamics for the predissociation process</i>
<i>12:30 Lunch</i>	