Conference
Semi-Classical And Geometric Asymptotics In Mathematical Physics
http://sites.univ-tln.fr/prc-russie/

Amphi FA010, Bât. Pi, Campus de Toulon

Day 1 (Tuesday, April 24)

08:30 – 09:00   Welcome to participants

Chair :   S.Dobrokhotov

09:00 – 09:40   A. A.Fedotov (St. Petersburg State University)
On minimal solutions of difference equations with periodic coefficients

09:45 – 10:05   E. V. Shchetka (St. Petersburg State University)
Monodromy matrices for Harper equation

10:10 – 10:30   A. Grigis (University Paris-Nord)
Excited resonance widths for Helmholtz resonators with straight neck

Coffee break

Chair : V. Nazaikinski

11:00 – 11:20   T. Ourmières-Bonafos (University Paris-Sud)
Dirichlet spectrum of conical layers

11:25 – 11:45   M. Khalile (University Paris-Sud)
Laplacians with Robin boundary conditions in 2D domains with corners

11:50 – 12:10   L. A. Chernozatonskii (Emmanuel Institute of Biochemical Physics, Moscow)
Wave packet scattering of Dirac and Schrödinger particles on potential barriers in graphene nanostructres

12:15 – 12:35   K. Reijnders (Radboud University, Nijmegen)
Caustics in graphene construction of a uniform semiclassical approximation and comparison with tight binding results

Lunch

Chair : L. Chernozatonskii

14:00 – 14:20   D. G. Kvashnin (Emmanuel Institute of Biochemical Physics & MISIS, Moscow)
Wave packet dynamics and electronic properties of novel perforated bilayered graphene

14:25 – 14:45   D. S. Minenkov (Institute for Problems in Mechanics, Moscow)
Semiclassical asymptotics and the density of states in graphene under STM tip

14:50 – 15:10   I. Bogaevski (Moscow State University)
Arnold's interior scattering in graphene

15:15 – 15:35   L. Cossetti (Roma)
Schrödinger operators with complex potentials : transition from spectra to pseudospectra

Coffee break

Chair : A. Grigis

16:05 – 16:25   K. Pankrashkin (University Paris-Sud)
Dirac operators with Lorentz scalar shell interactions

16:30 – 16:50   M. Hartig (CPT, Toulon)
Long range Van der Waals- London interaction in pseudo-relativisitc molecules

16:55 – 17:15   M. Oppio (Trento)
Quantum theory in real and quaternionic Hilbert space : How the complex Hilbert space

structure emerges from Poincaré symmetry

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Day 2 (Wednesday, April 25)

Chair : *A.Fedotov*

09:00 – F. Klopp (UPMC IMJ-PRG)
09:40 *Resonances for large samples of random
media*

09:45 – H. Ueberschar (UPMC IMJ-PRG)
10:05 *Intermediate eigenvalue statistics*

10:10 – S. Yu. Dobrokhotov (Institute for problems
10:30 in mechanics & MIPT, Moscow)
*New integral representation for the Maslov
canonical operator and applications*

Coffee break

Chair: K. Rijnders

11:00 – V. E. Nazaykinskii (Institute for problems in
11:20 mechanics)
*Asymptotics of problems with localized
functions on the right-hand side and in the
boundary data*

11:25 – A. Yu. Anikin (Institute for problems in
11:45 mechanics)
*Semi-classical asymptotics for operators
with non-trivial subprincipal symbols and
application to graphene equation*

11:50 – P. Petrov (V. I. Il'ichev Pacific Oceonogical
12:10 Institute, Vladivostok)
*Whispering galley waves in shallow
geoacoustic waveguides*

12:15 – T. Suslina (St. Petersburg State University)
12:35 *Homogenization of the stationary Maxwell
system with periodic coefficients*

Lunch

Chair : S. Shlosman

14:00 – A. Panati (CPT, Toulon)
14:20 *Heat fluctuations i the two-time
measurement framewrok and ultraviolet
regularity*

14:25 – S. de Nigris (INRIA, Lyon)
14:45 *Graph spectral characterization of the XY
model of complex networks*

Closing