Schedule of Summer School
Various aspects of mathematical physics, 8-11 July 2017

Saturday, 8 July

8:30-9:30 Registration

9:30-11:00 Roman G. Novikov, An introduction to multidimensional inverse scattering

COFFEE BREAK

11:25-12:55 Alex Sobolev, Qualitative and Quantitative Perturbation Theory for Periodic operators

LUNCH

14:30-16:00 Maria J. Esteban, Spectral estimates for Schrödinger operators on manifolds and with external magnetic fields

COFFEE BREAK

16:30-18:00 Ari Laptev, Spectral inequalities and their applications

WELCOME PARTY

Sunday, 9 July

9:30-11:00 Jacob Möller, Renormalization of linearly coupled models

COFFEE BREAK

11:25-12:55 Evgeny Korotyaev, Inverse problems and estimates for Schrödinger operators on the circle

LUNCH

14:30-16:00 Grigori Rozenblum, Eigenvalue estimates: CLR and beyond

COFFEE BREAK

16:30-18:00 Sergei Naboko, On the spectral analysis of Hermitian Jacobi Matrices: basic facts and examples

Monday, 10 July

9:30-11:00 Anton Baranov, Appllications of entire function theory to completeness problems

COFFEE BREAK

11:25-12:55 Aleksei Aleksandrov, Operator modulus of continuity

LUNCH

14:30-16:00 Setsuro Fujiie, Microlocal method for the semiclassical distribution of quantum resonances

COFFEE BREAK

16:30-18:00 Fumio Hiroshima, Thresholds and resonances of fractional Schroedinger operators on a lattice.

Tuesday, 11 July

9:30-11:00 Alexander Kiselev, Singularity formation in models of fluid mechanics

COFFEE BREAK

11:25-12:55 Andrei Tsyganov, Modern cryptography and classical mechanics

LUNCH

14:30-16:00 Natasha Saburova, Schrödiger operators on periodic discrete graphs

COFFEE BREAK

16:30-18:00 Andrei Badanin, Third and fourth order operators with periodic coefficients on the line,