

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

- 1) **Aleksei Aleksandrov**, (Russia), *Operator modulus of continuity*
- 2) **Maria J. Esteban**, (France) *Spectral estimates for Schrödinger operators on manifolds and with external magnetic fields*
- 3) **Setsuro Fujiie**, (Japan) *Microlocal method for the semiclassical distribution of quantum resonances*
- 4) **Fumio Hiroshima**, (Japan) *Thresholds and resonances of fractional Schroedinger operators on a lattice.*
- 5) **Evgeny Korotyaev**, (Russia), *Inverse problems and estimates for Schrödinger operators on the circle*
- 6) **Ari Laptev**, (Russia-Sweden-UK) *Spectral inequalities and their applications*
- 7) **M. Loss**, (USA), *TBA*
- 8) **Jacob Möller**, (Aarhus University, Denmark) *Renormalization of linearly coupled models*
- 9) **Segei Naboko**, (Russia) *On the spectral analysis of Hermitean Jacobi Matrices: basic facts and examples*
- 10) **Roman G. Novikov**, (France-Russia) *An introduction to multidimensional inverse scattering*
- 11) **Grigori Rozenblum**, (Sweden), *Eigenvalue estimates: CLR and beyond*
- 12) **Stanislav Smirnov**, (Switzerland-Russia) (TBA)
- 13) **Alex Sobolev**, (University College London) *Qualitative and Quantitative Perturbation Theory for Periodic operators*
- 14) **Natasha Saburova**, (Russia), *Magnetic Schrödinger operator on periodic graphs*
- 15) **Andrei Tsyganov**, (Russia) *Modern cryptography and classical mechanics*