Program of Plenary Talks

Conference "Dynamics in Siberia"

Monday, February 24	
09:00-10:00	**Registration** (Ground floor of the Sobolev Institute of Mathematics)
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
10:00-10:05	**Opening.**
10:05-10:55	**Treschev D.** *On stability of travelling waves.*
Coffee break (20 minutes)	
11:15-12:05	**Sadovskii V.** *Three solutions of a problem about running dislocation.*
12:15-13:05	**Lavrent'ev M.** *Academician M.A. Lavrent'ev - mathematics, mechanics and physics of blowing-up.*
CONFERENCE PHOTO	
Lunch (85 minutes)	
14:30-17:25 Section talks	
Tuesday, February 25	
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
10:00-10:50	**Nazaikinskii V.** *Maslov's canonical operator: new formulas and effective asymptotics.*
Coffee break (20 minutes)	
11:10-12:00	**Dobrokhotov S.** *On one approach to constructing the asymptotics of the eigenfunctions of the Laplace operator in an ellipse based on non-compact Lagrangian manifolds.*
12:10-13:00	**Shafarevich A.** *Bi-Lagrangian bundles and semiclassical asymptotics for multiscale evolutionary and spectral problems.*
Lunch (90 minutes)	
14:30-17:25 Section talks	
Wednesday, February 26	
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
10:00-10:50	**Fedotov A.** *The propagation of sound in a slowly changing ocean.*
11:00-11:50	**Grinevich P.** *Jacobians of rational curves corresponding to principal cells.*
Coffee break and poster session (20 minutes)	
12:10-13:00	**Guzev M.,** Fortova S. *Rank analysis of two-dimensional and quasi-two-dimensional turbulent flows.*
13:10-14:00	**Buryak A.** *Parameterization of integrable PDEs by Miura invariants and the moduli spaces of curves.*
Cultural program	

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Thursday, February 27	
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
10:00-10:50	**Bolotin S.** *Dynamics of slow-fast Hamiltonian systems: the saddle-focus case.*
11:00-11:50	**Gorchinskiy S.** *Power structures on Grothendieck rings of varieties.*
Coffee break (20 minutes)	
12:10-13:00	**Fursenko R.** *Revealing the physical mechanisms of subcooled laser-induced boiling using mathematical modeling.*
13:10-14:00	**Fortova S.** *Academician G.I. Marchuk: "It is necessary to set SUPER-TASKS.*
Cultural program	

Friday, February 28	
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
10:00-10:50	**Ilichev A.** *Motion of liquid particles in the field of a nonlinear periodic surface wave in a fluid beneath an ice cover.*
11:00-11:50	**Rozanova O.** *Linearization method for Euler-Poisson equations, criteria for the singularities formation and isochronous oscillations.*
Coffee break (20 minutes)	
12:10-13:00	**Bykov D.** *Lagrangian embeddings and supersymmetric quantum mechanics on flag manifolds.*
13:10-14:00	**Belozerov G.** *Singularities of three-dimensional billiards bounded by confocal quadrics.*
Cultural program	

Saturday, March 1	
Plenary talks (Conference Hall of the Sobolev Institute of Mathematics)	
10:00-10:50	**Borisov D.** *On spectra of convolution operators with potentials.*
11:00-11:50	**Zubelevich O.** *Monotone ODEs with discontinuous vector fields in sequence spaces.*
Cultural program	