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. *Об устойчивости бегущих волн.*
	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	