

# Saturday, July 2

## Conference Hall, 2<sup>nd</sup> Floor

10:00–10:45 M. Ben-Artzi, “From crystals to Dirac operators spectral theory” (*online*)

10:55–11:40 V. E. Nazaikinskii, “Effective quasiclassical asymptotics”

### Coffee break

12:00–12:45 H. G. Bock, “Inverse optimal control problems and application to modeling the gait of cerebral palsy patients” (*online*)

12:55–13:40 I. Shafrir, D. Golovaty, “Minimizers of a variational problem for nematic liquid crystals with variable degree of orientation in two dimensions” (*online*)

### Lunch

15:10–15:40 T. A. Shaposhnikova, “Boundary optimal control and homogenization: critical case”

15:50–16:20 E. I. Galakhov, O. A. Salieva, “Nonexistence of solutions for some nonlinear inequalities with transformed arguments in a half-space”

16:30–17:00 E. Kalita, “Nonlinear elliptic equations of nonstrictly divergent form and subcoercive operators”

### Coffee break

17:20–17:40 S. S. Postnov, “Optimal control problems for linear fractional-order equations under different definitions of fractional integro-differential operators”

17:50–18:10 M. Denche, O. Zibouche, “On a class of transmission boundary value problems with integral boundary conditions” (*online*)

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:40 V. P. Burskii, “Weak solutions of boundary value problems for general quasilinear PDEs”
- 15:50–16:20 V. Zh. Sakbaev, A. D. Shiryayeva, “Nonlinear Schrödinger equation with delay and its regularization”
- 16:30–17:00 I. F. Lezhenina, “On an estimate for the resolvent of one operator generated by a second-order differential equation with nonlocal conditions”

### Coffee break

- 17:20–17:40 N. Srivastava, V. K. Singh, “A new numerical approximation of Caputo fractional derivative and its applications” (*online*)
- 17:50–18:10 M. M. Turov, “Quasilinear equations with several Riemann–Liouville derivatives in the sectorial case”

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:40 T. N. Fomenko, “Application of the cascade search principle for zeros of functionals to the solution of one-parametric families of equations with multivalued operators”
- 15:50–16:20 P. Bonicatto, N. A. Gusev, “Weak superposition principle for signed measure-valued solutions of the continuity equation”
- 16:30–17:00 N. V. Artamonov, “Solvability of an operator Riccati integral equation in a reflexive Banach space”

### Coffee break

- 17:20–17:40 D. M. Polyakov, “Spectral asymptotics for fourth-order differential operator”
- 17:50–18:10 S. V. Tikhov, D. V. Valovik, “Integral characteristic equation method to solve a nonlinear eigenvalue problem”

## Auditorium 629, 6<sup>th</sup> Floor

- 15:10–15:40 A. Ashyralyev, C. Ashyralyev, “The second order of accuracy difference schemes for integral type time-nonlocal parabolic problems” (*online*)
- 15:50–16:20 A. Kuznetsov, E. Shishkina, “Random motion in arbitrary direction: analytical model and simulation”
- 16:30–17:00 M.V. Bulatov, E.V. Markova, “Collocation-variational approaches to solving Volterra integral equations of the first kind”

### Coffee break

- 17:20–17:40 L.S. Solovarova, M.V. Bulatov, “Collocation-variational approach for solving differential-algebraic equations” (*online*)
- 17:50–18:10 E.K. Kulikov, A.A. Makarov, “On refinement of the spline-collocation method for solving some integral equations”