



28 APRIL 2023, ROSTOV-ON-DON, RUSSIA

INTERNATIONAL WORKSHOP ON OPERATOR THEORY AND HARMONIC ANALYSIS

OTHA SPRING 2023 <https://otha.sfedu.ru/workshop-otha-spring-2023>, [otha.conference@gmail.com](mailto:otha.conference@gmail.com)

## SCIENTIFIC PROGRAMM & SCHEDULE OF EVENTS

| <b>FRIDAY 28.04.2023 Location: Institute of Mathematics, Mechanics and Computer Sciences, Mil'chakova Street, 8a</b> |   |  |
|--|---|--|
| <b>10:00-13:05</b>   | <b>Plenary Session (second floor, auditorium 211)</b>       |  |
| 10:00-10:20  | <b>Opening ceremony &amp; presentation of recent events</b> |  |
| 10:20-10:40  | Kryakvin Vadim  | Pseudo-differential operators in the scale of Hölder-Zygmund spaces  |
| 10:40-11:00  | Tsybulin Vyacheslav   | A model of ideal free distribution in a population dynamics  |
| 11:00-11:20  | Rokhlin Dmitry  | The problem of assigning prices that stimulate optimal behavior of resource consumers with unknown utility functions |
| 11:20-11:40  | Erusalimskiy Yakov  | About flows in networks with connected arcs  |
| 11:40-11:50  | <b>Coffee break</b>   |  |
| 11:50-12:10  | Kurakin Leonid  | Stability of a Thomson's N-gon in various models of point vortices   |
| 12:10-12:30  | Beliavsky Grigory   | Guaranteed portfolios  |
| 12:30-12:50  | Vatulyan Alexander  | Formulation and investigation of boundary value problems in the framework of gradient models                         |
| 12:50-13:10  | Vakulov Boris   | Weight theorems of Hardy-Littlewood-Sobolev type for potential type operators  |
| <b>13:10-14:25 Group photo (in front of the main entrance) and Lunch (ground floor, cafe "Integral")</b>             |   |  |
| <b>14:25-17:35</b>   | <b>Plenary Session (second floor, auditorium 211)</b>       |  |
| 14:25-14:45  | Zhukov Mikhail  | Variants of the hodograph method for quasilinear hyperbolic and elliptic equations in first order derivatives        |
| 14:45-15:05  | Kudryavtsev Oleg  | A Simplified Wiener-Hopf factorization method for pricing double barrier options under Levy processes                |
| 15:05-15:25  | Melikhov Sergey   | On the Schwarz problem for the convolution operator in spaces of holomorphic functions                               |
| 15:25-15:45  | Morgulis Andrey   | Acoustic wind in a hyperbolic model for a predator-prey community  |
| 15:45-15:55  | <b>Coffee break</b>   |  |
| 15:55-16:15  | Sumbatyan Mezhlum   | Asymptotic properties of the two-dimensional integral equation of a finite-span wing                                 |
| 16:15-16:35  | Norkin Michail  | Power asymptotics in a small time in the problem of cavitation impact of a floating circular cylinder                |
| 16:35-16:55  | Avsyankin Oleg  | Asymptotic Behavior of Solutions of Integral Equations with Homogeneous Kernels                                      |
| 16:55-17:15  | Levenshtam Valeriy  | Quasilinear hyperbolic systems with high-frequency data. Asymptotics of solutions.                                   |
| 17:15-17:35  | Steinberg Boris   | On efficient numerical iterative algorithms for solving equations with generalized multidimensional convolution      |

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Supported by the Regional Mathematical Center, project of the Ministry of Science and Higher Education of Russian Federation, agreement № 075-02-2023-924