

# International Conference

Conference on Partial Differential

Equations and Applications

in Memory of Professor B. Yu. Sternin

November 6 – 9, 2018

Program

RUDN University

Moscow

**Tuesday, November 6, 2018**

**8:30 Registration and Coffee**

**10:30 Opening Ceremony (Main Hall)**

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|  |  (Main Hall) Chair: A.S. Mishchenko |
| 11:00 | V. Ivrii: Complete semiclassical spectral asymptotics for periodic and almost periodic perturbations of constant operators |
| 11:50 | V.G. Maz’ya: Sobolev inequalities in arbitrary domains |

**12:45–14:15 Lunch (RUDN canteen)**

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|  | **14:15–15:00** (Hall ) Chair: Yu.A. KordyukovS.M. Gusein-Zade: Universal Euler characteristic of orbifolds | ***Section 3***  (Hall )Chair: V.I. Burenkov |
| 14:30 | ***Section 1*** Chair: Yu.A. Kordyukov (Hall )  | ***Section 2***  Chair: Yu.A. Alkhutov (Hall ) | M.L. Goldman |
| 15:05 | A.S. Mishchenko | V.G. Danilov | E.I. Moiseev/.A.Gulyaev |
| 15:40 | A. Gorokhovsky | H. Gacky/R. Brodnicka | T. Shaposhnikova  |

**16:15–16:45 Coffee break**

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|  | ***Section 4***  (Hall )Chair: V.M. Manuilov | ***Section 5***  (Hall )Chair: V.E. Nazaikinskii | ***Section 6***  (Hall )Chair: L.E. Rossovskii |
| 16:45 | A.B. Lazarev | A.Yu. Anikin | A.B. Muravnik |
| 17:05 | Zhu Chaofeng | D.S. Minenkov | T.V. Sal’nikova |
| 17:25 | Su Guangxiang | S.A. Sergeev | D. Choudhuri |
| 17:45 | V. Gasimov | A.I. Allilueva | A.S. Demidov |
| 18:05 | A.I. Shtern | V.L. Chernyshev | I. Talib |

**Wednesday, November 7, 2018**

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|  |  (Main Hall) Chair: |
| 9:00 | M.I. Katsnelson: Engineering of quantum Hamiltonians by high-frequency laser fields |
| 9:50 | A.G. Sergeev: Quantum Hall effect and noncommutative geometry |

**10:40–11:10 Coffee break**

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|  | (Main Hall) Chair: |
| 11:10 | A.T. Fomenko: Topological billiards and integrable Hamiltonian systems |
| 12:00 | Yu.S. Il’yashenko: Global bifurcations on the two-sphere |

**12:50–14:15 Lunch (RUDN canteen)**

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|  | ***Section 7***  (Hall )Chair: Zhang Weiping | **14:15** **–15:00** (Hall ) Chair:V.E. Nazaikinskii: Partial spectral flow and Aharonov–Bohm effect in graphene |
| 14:30 | J. Alvarez Lopez | ***Section 8***  Chair: (Hall ) | ***Section 9***  Chair: (Hall ) |
| 15:05 | A.B. Antonevich | D. Grieser | A.Ya. Helemskii |
| 15:40 | Yu.A. Kordyukov | B. Vertman | V. Kolokoltsov |

**16:15–16:45 Coffee break**

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|  | ***Section 10***  (Hall )Chair: A.B. Antonevich | ***Section 11***  (Hall )Chair: D. Grieser | ***Section 12***  (Hall )Chair: |
| 16:45 | I. Androulidakis | G. MendozaV.B. Vasilyev | N. Abasov |
| 17:05 | A.A. Arutyunov | M.A. Pliev |
| 17:25 | A. Alekseev | M.V. Demina |
| 17:45 | D. Millionshchikov | V.S. Kalnitsky  | M.V. Kukushkin  |
| 18:05 | A.Yu.Pirkovskii | S. Burian | D. Singh |

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| 16:45 | Special session on Maslov’s approach to Thermodynamics (Moscow State University, 13th floor) |

**Thursday, November 8, 2018**

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|  |  (Main Hall) Chair: |
| 9:00 | J**.** Brüning: The equivariant Atiyah--Patodi--Singer theorem |
| 9:50 | A.I. Shafarevich: Laplacians and wave equations on two-dimensional polyhedra |

**10:40–11:10 Coffee break**

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|  |  (Main Hall) Chair: |
| 11:10 | J. Ecalle: Singular and singularly perturbed differential systems and their triple resurgence regime |
| 12:00 | A.A. Shkalikov: On perturbations of self-adjoint and normal operators: analytical aspects |

**12:50–14:30 Lunch (RUDN canteen)**

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|  | ***Section 13***  (Hall )Chair:  | ***Section 14***  (Hall )Chair: | ***Section 15***  (Hall )Chair: |
| 14:30 | B. Gramsch | A.M. Denisov | V.I. Burenkov |
| 15:05 | E. Schrohe | L.M. Kozhevnikova | Yu.E. Gliklikh |
| 15:40 | L.E. Rossovskii | I. Astashova | A.I. Nazarov |

**16:15–16:25 Break (but no Coffee, sorry)**

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|  | ***Section 16***  (Hall )Chair: S.Yu.Dobrokhotov | ***Round Table and Memorial Session Dedicated to Boris Sternin and his scientific legacy***  (Hall )Chair: A.S.Mishchenko | ***Section 17***  (Hall )Chair: |
| 16:25 | M. Rouleux | G.I. Sharygin |
| 16:45 | A.A. Tolchennikov | V.V. Vedushkina |
| 17:05 | K. Reijnders | S.Ya.Sekerzh-Zenkovich/A.A.Tolchennikov |
| 17:25 | J. Rowlett |

**18:00–21:00 Conference Dinner (RUDN canteen)**

**Friday, November 9, 2018**

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|  |  (Main Hall) Chair: |
| 9:00 | Zhang Weiping: Positive scalar curvature on foliations |
| 9:50 | S.Yu. Dobrokhotov: Lagrangian manifolds related to Bessel functions, and their applications |

**10:40–11:10 Coffee break**

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|  |  (Main Hall) Chair: |
| 11:10 | A.L. Skubachevskii: Stationary and nonstationary solutions of mixed problems for Vlasov–Poisson equations |
| 12:00 | V.V. Lychagin: On classification of the second order differential operators and differential equations |

**12:50–14:30 Lunch (RUDN canteen)**

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|  | ***Section 18***  (Hall )Chair: A.S. Mishchenko | ***Section 19***  (Hall )Chair: | ***Section 20***  (Hall )Chair: |
| 14:30 | P.M. Akhmetev | Yu.A. Alkhutov/M.D. Surnachev | A.P. Kiselev |
| 15:05 | T. Popelensky | A.V.Faminskii | M.M. Malamud  |
| 15:40 | A.A. Fedotov | N.N. Nefedov | B. Tirozzi |

**16:15–16:45 Coffee break**

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|  | ***Section 21***  (Hall )Chair: V. Gasimov | ***Section 22***  (Hall )Chair: | ***Section 23***  (Hall )Chair: |
| 16:45 | Yu Jianqing | D. Mazlum  | A.G. Kyurkchan |
| 17:05 | J.R. Oliveira | E. Vybornyi |
| 17:25 | Li Xiaoyu | Yu.K. Sabitova | A.I. Aristov |
| 17:45 | Nguen Le Ahn | R. Gaydukov | M. Kumar |

**18:10 Closing Ceremony**