

September 9, 2024, from 4:45 p.m. to 6:20 p.m. (Moscow time)  
room 16-10 and broadcast via ZOOM

**Vladimir E. Nazaikinskii**

*Uniformization and Semiclassical Asymptotics for  
Equations on Stratified Manifolds*

On a stratified manifold  $X$  — the orbit space of a smooth action of a compact Lie group  $G$  on a smooth manifold  $M$  — we consider operators that are restrictions of  $G$ -invariant operators with smooth coefficients on  $M$  to the subspace of  $G$ -invariant functions, naturally identified with functions on  $X$ . The asymptotics are related to Lagrangian manifolds in the phase space defined by the symplectic reduction of the cotangent bundle  $T^*M$  by the action of the group  $G$ . We will consider in detail the special case when  $G$  is a circle and  $X$  is a manifold with boundary on which the equations under consideration degenerate in a special way.

**SCIENTIFIC SEMINAR  
“DIFFERENTIAL GEOMETRY AND APPLICATIONS”**

headed by Academician of RAS Anatoly T. Fomenko

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