

# INTERNATIONAL BIWEEKLY ONLINE SEMINAR ON ANALYSIS, DIFFERENTIAL EQUATIONS AND MATHEMATICAL PHYSICS

---

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

[JOIN THE SEMINAR](#)

**15 June 2023, 6 pm (UTC+3)**

## A survey on current results in Theory of Lieb-Thirring inequalities

**Ari Laptev**, Imperial College London, UK

[a.laptev@imperial.ac.uk](mailto:a.laptev@imperial.ac.uk)

After an overview of current state in theory of Lieb-Thirring inequalities, we shall give proofs of two results where sharp constants are known.

\*Seminar website: <https://msrn.sfedu.ru/sl>. The seminar uses Microsoft Teams online platform.  
Please send questions to [ademp.seminar@gmail.com](mailto:ademp.seminar@gmail.com) (Tatiana Andreeva, scientific secretary).

---

The seminar is organized by the coordinators Alexey Karapetyants and Vladislav Kravchenko within the activities of the Regional Mathematical Center of the Southern Federal University in collaboration with Institute of Mathematics, Mechanics and Computer Sciences of the Southern Federal University and the OTHA research group in Operator Theory and Harmonic Analysis.



**Regional Mathematical Center**  
<https://rmc.sfedu.ru/>



**Institute of Mathematics, Mechanics  
and Computer Sciences**  
<http://www.mmcs.sfedu.ru/>



**OTHA research network in  
Operator Theory and Harmonic Analysis**  
<http://msrn.sfedu.ru/>