

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

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

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22 December 2022, 6 pm (UTC+3)

On spectral theory of metric graphs

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The talk will be devoted to the studies of fine structure of the spectra of standard Laplacians on metric graphs. The structure of the spectrum will be examined in relation to:

- the topology and geometry of the underlying graphs;
- properties of almost periodic functions describing the spectrum;
- crystalline measures;
- reducibility of the secular polynomials.

*Seminar website: <https://msrn.sfedu.ru/sl>. The seminar uses Microsoft Teams online platform. Please send questions to 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.

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