Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko JOIN THE SEMINAR

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## On algebras generated by integral operators with homogeneous kernels

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We consider two Banach algebras generated by multidimensional integral operators with homogeneous kernels. For each of these algebras, we construct a symbolic calculus. In terms of this calculus, we obtain the necessary and sufficient conditions for an operator in these algebras to be invertible and Fredholm.

\*Seminar website: <u>https://msrn.sfedu.ru/sl</u>. The seminar uses Microsoft Teams online platform. Please send questions to <u>ademp.seminar@gmail.com</u> (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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