Tbilisi Analysis & PDE Seminar



https://www.math.ku.dk/Billeder/1100x600/G erd_Grubb_2020-1100x600.jpg Dear Colleagues!

Institute of Mathematics of the University of Georgia is pleased to invite you to the Online Tbilisi Analysis & PDE Seminar. The seminar is held bi-weekly on Mondays at 16:00 GMT (at 17:00 CET, at 20:00 local time in Tbilisi).

Seminar on April 19:

Speaker: Prof. Gerd Grubb, Department of Mathematical Sciences, University of Copenhagen (UCPH); https://www.math.ku.dk/english/staff/?pure=en/persons/64670

The title of the lecture: "Boundary problems for fractional-order operators"

As we know, the pseudodifferential point of view should be useful too, in view of Vishik and Eskin's work in the sixties, and many later works. I shall tell about a circle of results developed in the last 8 years, based on the mutransmission condition introduced by Hörmander (in his book '85 and in a lecture note '66), telling also how they differ from the results in Eskin's book '81.

The pseudodifferential methods have not been popular in the applications community, partly because Fourier transform techniques (and complex functions) do not seem to be part of the toolbox, partly because the ps.d.o. methods originally have required much smoothness of operators and domains. In particular, the handling of nonsmooth domains by nonsmooth coordinate changes has lacked a thorough development. I will end by telling of recent progress in this question, in a collaboration with Helmut Abels completed last year.

Date: April 19, 2021; Time: 16:00 GMT (17:00 CET and 20:00 local time in Tbilisi); How to join:

The seminar is organized on the <u>Cisco Webex Meetings</u>. If you are already registered, you do not need to register again. Otherwise, to join the seminar please send an e-mail to <u>seminarim@ug.edu.ge</u> or register here:

https://forms.gle/xfQJ9fg1uqe7CrZw6

You will then receive further information.

WEB of Seminar: https://www.ug.edu.ge/en/tbilisi-analysis-and-pde-seminar

Organizers:

- 1. R. Duduchava, Institute of Mathematics, University of Georgia, Tbilisi
- 2. E. Shargorodsky, Department of Mathematics, King's College London
- 3. G. Tephnadze, Institute of Mathematics, University of Georgia, Tbilisi

Secretary:

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