



Dear Colleagues!

The V. Kupradze Institute of Mathematics at the University of Georgia is pleased to invite you to the Online Tbilisi Analysis & PDE Seminar. The seminar is held bi-weekly on Wednesdays at 20:00 (GMT+4) local time in Tbilisi.

**Talk on July 1, 2026**

**Speaker:** Prof. Oleksiy Karlovykh, NOVA University Lisbon, Portugal;

**E-mail:** [oyk@fct.unl.pt](mailto:oyk@fct.unl.pt);

<https://docentes.fct.unl.pt/oyk/>

**The title of the lecture:** “Lower estimates for the norm and measures of noncompactness of Wiener-Hopf type operators”

**Abstract:** We consider multidimensional generalisations of Wiener-Hopf operators and show that, under mild restrictions on the underlying Banach function space, their norm is estimated below by the  $L_\infty$  norm of the symbol, while their Kuratowski measure of noncompactness is estimated below by half that norm. Additionally, we show that for a classical Wiener-Hopf operator on a (separable) translation-invariant Banach function space over the half-line, its Hausdorff measure of noncompactness, its essential norm, and its norm are all equal.

The talk is based on a joint work with Eugene Shargorodsky (King’s college London).

**Date:** July 1, 2026

**Time:** 20:00 (GMT+4) local time in Tbilisi;

**(Compare to your local time:** <https://www.timeanddate.com/worldclock/georgia/tbilisi>);

## How to join:

The seminar is organized on the **Google Meet** platform. If you are already registered, you do not need to register again. Otherwise, to join the seminar, please send an email to [kim@ug.edu.ge](mailto:kim@ug.edu.ge) or register here:

<https://forms.gle/xfQJ9fg1uqe7CrZw6>.

You will then receive further information.

**WEB of Seminar:** <https://ug.edu.ge/en/tbilisi-analysis-and-pde-seminars>.

## Organizers:

1. R. Duduchava, Institute of Mathematics, University of Georgia, Tbilisi, Georgia
2. E. Shargorodsky, Department of Mathematics, King’s College London, UK
3. A. Meskhi, Kutaisi International University, Kutaisi, Georgia

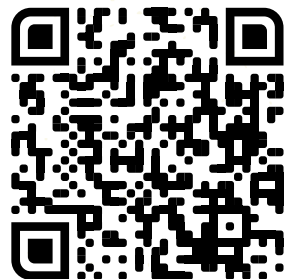
## Secretary:

M. Tsaava, Institute of Mathematics, University of Georgia, Tbilisi, Georgia

## Technical support:

T. Kuzmina, Institute of Mathematics, University of Georgia, Tbilisi, Georgia

G. Tutberidze, Institute of Mathematics, University of Georgia, Tbilisi, Georgia



## Google Meet Join Information

- **Video Call Link:** <https://meet.google.com/fes-ughx-mob>
- **Invitation (Calendar) Link:** <https://calendar.app.google/7GxkYetKVZVAEpcz8>