

Dear Colleagues!

V. Kupradze 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 Tuesdays at 20 : 00 local time in Tbilisi.



**Talk on June 24, 2025**

**Speaker:** Prof. **Berikbol Torebek**, Ghent University.  
<https://sites.google.com/view/berikboltorebek/home-page>

**"Inhomogeneous exterior problems for the semilinear evolution equations with critical nonlinearities"**

**Abstract:** . In this talk we will discuss about long-time behavior of solutions to the exterior problems for the semilinear evolution equations with critical nonlinearities. For the considered problems, globally nonexistence results are obtained, which complements the recent results by Ikeda et al. [J. Differential Equations, 269 (2020), no. 1, 563-594], where critical cases were left open. Moreover, our results provide partially answers to some

other open questions previously posed by Zhang [Proc. Roy. Soc. Edinburgh Sect. A, 131 (2001), no. 2, 451-475] and Jleli-Samet [Nonlinear Anal., 178 (2019), 348-365].

**Date:** June 24, 2025

**Time:** 20 : 00 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 e-mail to [ug.seminar.kim@ug.edu.ge](mailto:ug.seminar.kim@ug.edu.ge) 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-seminars>

### 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:

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

### Technical support:

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