



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 Tuesdays at 20 : 00 local time in Tbilisi.

Talk on November 28, 2023

Speaker: Dr. Nazar Miheisi, King's Kollege London;
<https://www.kcl.ac.uk/people/nazar-miheisi>

"Completeness of systems of inner functions"

Abstract: An inner function is an analytic function on the unit disk whose boundary values have modulus 1 almost everywhere – these play a special role in operator theory and function theory. In this talk I will discuss the following problem: for which inner functions ϕ and ψ , are the powers ϕ^m, ψ^n ($m, n \in \mathbb{Z}$) complete in the weak-* topology of L^∞ ? This problem was first considered in 2011 by Hedenmalm and Montes-Rodríguez who gave a complete solution for atomic inner functions with one singularity. I will give a recent extension of this result to a much wider class of inner functions. If time permits, I will also discuss a connection with a problem in Fourier uniqueness.

Date: November 28, 2023

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 **Cisco Webex Meetings**. If you are already registered, you do not need to register again. Otherwise, to join the seminar please send an e-mail to seminarim@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:

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

Secretary:

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

Technical support:

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

