



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 June 13, 2023

Speaker: Doctoral student **Duvan Cardona Sanchez**, Ghent Analysis and PDE Center;
<https://sites.google.com/site/duvancardonas/>

"Continuity properties for some operators arising in non-commutative harmonic analysis"

Abstract: The non-commutative harmonic analysis on nilpotent Lie groups after the developments by Folland and Stein in the 70's has been fundamental for the analysis of hypoelliptic problems on graded Lie groups. They started the program of generalising in the setting of nilpotent Lie groups the results available in the Euclidean harmonic analysis. Several fundamental results in this area have been obtained in the last 50 years. In this setting, we review some recent results about the boundedness of oscillating Fourier multipliers, pseudo-differential operators and other operators arising in this setting. The results presented in this talk are part of my joint works with M. Ruzhansky (Ghent) and J. Delgado (Colombia)

Date: June 13, 2023

Time: 20 : 00 local time in Tbilisi;

(Compare to your local time: [https://www.timeanddate.com/worldclock/georgia/tbilisi\);](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>

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