
Barcelona Analysis Seminar **2022–2023**

URL. <https://mat.uab.cat/web/seminarianalisi/>**Date.** January 26, 2023**Time.** 15:00 CET**Room.** CRM A1 (Universitat Autònoma de Barcelona)**Online streaming.** [Click here to join.](#)

L_p -boundedness of Fourier and Schur multipliers

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Fourier multipliers are operators that act by pointwise multiplication on the Fourier transform side, while Schur multipliers are operators that act on matrices by multiplication, only using the *bad student* product:

$$A = (a_{ij})_{ij}, \quad B = (b_{ij})_{ij}, \quad A \bullet B := (a_{ij}b_{ij})_{ij}.$$

In this talk, we will explain the connections between L_p -boundedness of Fourier multipliers and Schur multipliers and we will show how Calderón-Zygmund theory can be of importance to understand the latter through the former. This is joint work with A. González Pérez, J. Parcet and E. Tablate.