

INVITATION TO A GUEST LECTURE

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“On different types of dichotomy and their spectra”

📍 S.2.42

📅 Monday, 16 June 2025

🕒 2:00 p.m.

Abstract

In this talk I discuss the different notions of generalized dichotomies that exist on literature, exploring the different characteristics they have and how this affects the possibility of achieving a spectral theorem to each one. This includes the definition of a novel spectrum, presenting examples that serve as motivation for this new definition. Finally, I establish a comparison criteria for dichotomies given by different growth rates and what are the spectral consequences of this criteria.

The contents of this talk are mainly derived from: • N. Jara; C. A. Gallegos. Spectrum Invariance Dilemma for Nonuniformly Kinematically Similar Systems. *Mathematische Annalen (Math. Ann.)*, 2025. • N. Jara; C. A. Gallegos; Á. Castañeda. Discrete μ -Dichotomy Spectrum: Beyond Uniformity and New Insights. arXiv:2501.04676

Christian Pötzsche and the Department of Mathematics look forward to seeing you at the talk!