ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO A GUEST LECTURE

On different types of dichotomy and their spectra

Néstor Patricio Jara Lagos | University of Chile, Santiago

Chaired by Christian Pötzsche | Department of Mathematics

Monday, 16 June 2025 | 14:00–15:00

S.2.42

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

We hope to see you there!