ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

# Invitation to a Guest Lecture


## Néstor Patricio Jara Lagos

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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 $\mu$-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!