

Matrix representations and I-spaces: A geometric model (A_{n+1} case)

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Abstract

Jointly with; Agustín Moreno Cañadas and Hernan Giraldo. The association of geometric models to algebraic categories has been studied and developed by many authors, among others we mention: [1–5, 7, 9,]. In this talk we give geometric models, in the spirit of Caldero-Chapoton-Schiffler [5] for two categories: The additive category of matrix representations and the category of filtered k -linear representations (I -spaces) of one peak partially ordered sets of type \mathbb{A}_{n+1} [6, 8,]. This approach gives new ways to understand the intrinsic combinatorics of these categories.

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