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The Strong Exchange Property of Coxeter Matroids

Wednesday, July 23, 2025 2:00 PM (30 minutes)

This talk assumes no prior knowledge for any of the terms mentioned in this abstract. Coxeter matroids are an interesting generalization of matroids through the use of root systems. Borovik, Gelfand and White give a description of a strong exchange property for Coxeter matroids and give an example of a Coxeter matroid which does not satisfy the strong exchange property. In this talk we describe precisely when Coxeter matroids satisfy the strong exchange property using representation theory, tropical geometry and polytope theory.

Motivation for Participation

Application for a talk

E-Mail

Special requests and comments

Academic Status

Financial Support

Institution (University)

Topic of your talk

Comments and Suggestions on the Community Agreement

Nationality

Country of Institution

Preferred Name

Gender

Preferred Pronouns

Author: DERMENJIAN, Aram (Universidad de Sevilla)

Presenter: DERMENJIAN, Aram (Universidad de Sevilla)