ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO A TALK

Rectangulations, posets, permutations, and patterns

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Chaired by Clemens Heuberger | Department of Mathematics

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ABSTRACT

A rectangulation is a partition of a rectangle into rectangles. There are two natural ways to define "structurally identical" rectangulations: via rectangle–segment contacts (the weak equivalence), and via rectangle–rectangle contacts (the strong equivalence). Guillotine rectangulations are rectangulations with a simple recursive structure. In this talk, I will briefly present recent results concerning combinatorics of rectangulations:

(1) A uniform treatment of representation of weak and strong rectangulations by posets and permutations,

(2) A permutation class in bijection with strong guillotine rectangulations,

(3) Enumeration of weak guillotine rectangulations that avoid certain patterns.

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We hope to see you there!