

Invited talk

Speaker: Christian Krattenthaler

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Title: Non-crossing partitions for reflection groups

Abstract: The past few years have seen the emergence of several new combinatorial objects associated to reflection groups. A rich theory has been developed up to now, with still many problems and conjectures remaining unresolved. In this talk, I shall mainly concentrate on the non-crossing partitions associated to (real and complex) reflection groups, as defined by Armstrong, Bessis and Reiner, Brady and Watt. I shall start by giving a short introduction in the basics of reflection groups, and subsequently I shall provide a survey of the many beautiful and often surprising results about the enumeration, the poset structure, its topology, etc., of these non-crossing partitions that have been obtained up to this date.