

Simon Joyce (Binghamton)

The Symmetric Group and Non-Crossing Partitions

Abstract for the Combinatorics and Algebra Seminars 2008 December 2

I will define a poset relation on the symmetric group S_n , which gives a natural order-preserving function from S_n to the lattice of partitions. If we restrict our attention to elements in S_n under a particular n -cycle, we have a lattice which is isomorphic to the lattice of non-crossing partitions. If time permits I'll talk about some of the implications.

This work is based on a paper by Thomas Brady.

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