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Regular Non-Crossing Partitions

Abstract for the Combinatorics Seminar 2008 November 18

I will define an m -regular non-crossing partition and prove a bijection between certain m -regular non-crossing partitions of n and certain $(m-1)$ -regular non-crossing partitions of $n - 1$. This bijection allows us to express the Narayana numbers (which count the number of plane trees with $n + 1$ vertices and k leaves) in terms of the Catalan numbers (which count any of 166 things, a la Stanley).

This talk is based on a paper by Chen, Deng, and Du.

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