## Jackie Kaminski (Binghamton)

## **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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