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### The Lattice of Non-Crossing Partitions

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#### Abstract for the Combinatorics Seminar 2008 November 11

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The lattice of non-crossing partitions is self-dual in a simple way. I will show that it also has a symmetric chain decomposition by decomposing it into sub-posets that are direct products of smaller non-crossing partition lattices. I will also present a constructive proof of this through words.

This work was done by Simion and Ullman.

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