

Department of Applied Mathematics and Statistics
The Johns Hopkins University

STUDENT SEMINAR

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Friday, September 24, 2004
304 Whitehead Hall
12:00 noon

ALGORITHMS FOR NON-CROSSING PARTITIONS

ABSTRACT

We introduce algorithms for computing with non-crossing partitions. We present algorithms that find the children and parents of a non-crossing partition in the partially ordered set NC_n , test for refinement, perform group actions on non-crossing partitions, calculate certificates, and list the set of non-crossing partitions. These algorithms are based on a representation of non-crossing partitions as binary trees.