



Analysis Seminar

Longest Increasing Subsequences in Permutations

By
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Abstract: In this survey talk, I will review some interesting results related to the longest increasing subsequence problem such as Erdős-Szekeres Lemma, patience-sorting algorithm, Young tableaux and Schensted correspondence. We will also see how the problem can be reformulated as an interacting particle process. Another reformulation of the problem in permutation-patterns context will be discussed along with some open problems.

The talk will be based on the following survey paper:
Longest increasing subsequences: from patience sorting to the Baik-Deift-Johansson theorem. *Bull. Amer. Math. Soc. (N.S.)*

36 (1999), no. 4 by **Aldous and Diaconis.**

Date: Tuesday, November 20, 2018

Time: 16:00-17:00

Place: Mathematics Seminar Room, SA – 141

Tea and cookies will be served before the seminar.