

Sorting networks, staircase Young tableaux and last passage percolation

Wednesday, September 16, 2020 10:00 AM (50 minutes)

I will present new distributional identities relating three random processes: the oriented swap process on n particles, the corner growth process, and the last passage percolation model. The study of these identities leads to interesting combinatorics and involves tools such as the RSK, Burge, and Edelman-Greene correspondences. One of the identity provides precise finite- n and asymptotic predictions on the distribution of the absorbing time of the oriented swap process.

This talk is based on joint works with Elia Bisi, Shane Gibbons and Dan Romik (arXiv:2003.03331, 2005.02043).

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