Poset inequalities

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Time: Wednesday 06.07., 11:00 – 11:50

Abstract: Partially ordered sets are ubiquitous combinatorial structures which appear as objects from algebra (Young tableaux, Bruhat order) to general acyclic graphs. Counting their linear extensions (total orders) and order preserving maps are central problems in combinatorics without "nice" enumerative formulas and so understanding their behavior is a challenge. In this talk we will show various general inequalities for linear extensions and order preserving maps and prove some by explicit injections. Based on a series of joint paper with Swee Hong Chan and Igor Pak.