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THE WORLD OF POSET INEQUALITIES

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Partially ordered sets are ubiquitous, yet poorly understood structures in combinatorics. Counting their linear extensions, or order preserving maps, do not have nice closed formulas and thus we can only hope to understand them qualitatively or asymptotically. In this talk, I will show some inequalities relating linear extensions and order preserving maps for general posets, and we will discuss some combinatorial (injective) proofs in special cases.