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Igor Pak* (pak@math.ucla.edu). *The future of bijections.*

Combinatorial bijections have been a staple of Enumerative Combinatorics for much of its recent history, leading to beautiful proofs, new results and interesting insights into the nature of combinatorial objects. In this talk, I will survey several ways in which the notion of bijection can be modified and adapted to prove new results on trees, partitions, and convex polytopes. Part of the talk is based on joint work with Matjaz Konvalinka. (Received August 31, 2011)