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Probabilistic aspects of pattern avoiding permutations.

This talk will discuss recent work connecting random pattern avoiding permutations to classical universal objects in probability. We will focus on connections between patterns avoiding a monotone pattern and random walks in cones and how this connection can be exploited to analyze the structure of typical large permutations avoiding a monotone pattern. Emphasis will be given to the enumerative implications of the resulting probabilistic statements. (Received September 25, 2018)