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Moving Faces to Other Places: Facet Derangements of the Hypercube

Abstract for the Combinatorics Seminar 2013 May 14

When you roll a die, what is the probability that every face has been moved to another location? Starting from this simple problem, I look at integer sequences associated with the number of facet derangements of an n -dimensional hypercube. I briefly survey some previous work, discuss a reformulation of the problem, and give recursive and non-recursive formulas for the sequences.

This is joint work with Liz McMahon.

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