

*Department of Mathematics,
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Math 269 - Combinatorics

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University of Southern California

Distribution of descents in matchings and derangements

Abstract:

The distribution of descents in certain conjugacy classes of S_n have been previously studied, and it is shown that its moments have interesting properties. This talk provides a bijective proof of the symmetry of the descents and major indices of matchings and uses a generating function approach to prove a central limit theorem for the number of descents in matchings. We also extend this result to derangements.

Host: Brendon Rhoades

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4:00 PM

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