Math 269 - Combinatorics

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p,q analogues of m-level rook numbers

Abstract:

This talk presents joint work with Nicholas Loehr, Jeffrey Remmel, and Bruce Sagan. The m-level rook placements are a generalization of ordinary rook placements. By factoring the m-level rook polynomials of Ferrers boards, it is possible to partition them into equivalence classes.

There is a p,q-analogue of the m-level rook numbers. We have a bijective proof that two boards with the same m-level rook numbers have the same q-analogues of their m-level rook numbers. Surprisingly, they may not have the same p-analogues.

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