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Cyclic tableaux and symmetric functions. (English)

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The notion of cyclic tableau is introduced as a dissection on an n - cycle in which every node is assigned a variable. A tableau is said to be strict if for every block in a dissection the assigned variables are increasing along the direction of the block. Several involutions on the set of nondegenerate strict tableaux are considered. It appears that those involutions spell out the duality between two forms of Waring's formulas.

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Keywords : multinomial coefficients; symmetric functions; Möbius function; Chebyshev polynomials; cyclic tableau; Waring's formulas

Classification :

*05E10 Tableaux, etc.

05E05 Symmetric functions

05E35 Orthogonal polynomials (combinatorics)

33C45 Orthogonal polynomials and functions of hypergeometric type

Cited in ...