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Combinatorial Characters of Symmetric Group

We derive an expression for generating function of irreducible character of \mathfrak{S}_n corresponding to two row partition $(n - k, k)$ and hook partition $(n - k, 1^k)$ in terms of cycle statistics of evaluating permutation. We use Doubilet inversion formula and homology of poset of tilings for our derivation. As an application we give a new proof of M. Rosas formula for Kronecker coefficients of two row partition and hook partition.