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Another Look at Factorizations of Full Cycles

We will look at a generalization of an interesting symmetric function identity observed recently by Vassilieva and Morales. The identity serves as an implicit formula for certain connection coefficients of the symmetric group, and we use it to give a short algebraic derivation of an enumerative formula (originally due to Goulden and Jackson) for “top” factorizations of a full cycle into an ordered product of permutations of known cycle types.