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Alcove walks and Macdonald polynomials

Macdonald polynomials are polynomials with two parameters q and t, associated to root systems. The type A symmetric Macdonald polynomials specialize to the Hall–Littlewood polynomials at $q = 0$, and specialize to the Schur polynomials at $q = t$.

We give a Littlewood–Richardson rule for symmetric Macdonald polynomials. The coefficients are described combinatorially, using paths with folds.