

Explicit formulas for special functions: crystal bases, ice models, and Iwahori-Hecke algebras

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We discuss various ways of obtaining explicit expressions for symmetric functions and their deformations, which are often realized as matrix coefficients for p -adic groups. The three methods featured are statistical mechanics (two-dimensional lattice models), crystal bases for highest weight representations, and symmetrizers in Iwahori-Hecke algebras.