Philadelphia Area Number Theory Seminar

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Six-Vertex Lattice Models and p-Adic Matrix Coe cients

Abstract:

Originally developedindependently by physicists (for use in statistical mechan7 ics) and combinatorialists (to study alternating sign matrices), six-vertex models have recently found applications in probability and p-adic representation theory. In particular, there are six-vertex models whose partition functions evaluate to values various p-adic matrix coe cients, e.g. Whittaker functions. In this talk, I will dis7 cuss prospective lattice models whose partition functions appear to give type B/C Hall-Littlewood polynomials. This is ongoing joint work with Ben Brubaker and Andy Schultz.

Thursday , October 21, 2021 3:25 { 4:45 PM

Bryn Mawr College
Department of Mathematics
Park ScienceCenter 245
Informal refreshmentsat 3:10PM in Park 361