

Algèbres non commutatives, théorie des représentations et fonctions
spéciales
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Non-commutative algebras, representation theory and special functions
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Whittaker functions on p -adic groups and vertex models

Whittaker functions are a central object in the theory of p -adic groups. For example, they appear as Fourier coefficients of automorphic forms, and they are used to define their associated L-functions.

In this talk I will define Whittaker functions on a p -adic group and explain how they can be studied combinatorially using solvable lattice models related to some interesting quantum affine (super)groups.

This is joint work with Brubaker, Bump and Gustafsson.