Séminaire de théorie des nombres

Le 13 décembre à 14h

Algebraic Hypergeometric Functions

Exposé de Fernando Rodriguez-Villegas

Résumé : I will discuss a characterization of the functions of the title (classical one-variable hypergeometric series that satisfy a polynomial equation) in terms of the integrality of its Taylor coefficients. The proof follows the work of Beukers and Heckman and relies on properties of the Hermitian form fixed by the monodromy group. This Hermitian form, it turns out, can be described by an ancient construction due to Bezout.