K-Theory, Quadratic Forms and Number Theory
Seminar

Title: Algebraic hypergeometric functions

Speaker: Professor Frits Beukers (Universiteit Utrecht)

Date: Wed 23rd April 2008 at 5:00PM

Location: Mathematical Sciences Seminar Room

Abstract: Hypergeometric functions (in one and several variables) are classical functions which occur at many places in mathematics and mathematical physics. We shall be interested in hypergeometric functions which are at the same time algebraic in their arguments. This subject started in 1873 with the work of H. A. Schwarz. In this lecture we discuss a number of examples, introduce a general class of several variable hypergeometric functions, the so-called GKZ-functions, and describe a combinatorial criterion for their algebraicity.

Please note the time.