K-Theory, Quadratic Forms and Number Theory Seminar

Professor Marie José Bertin (Université Pierre et Marie Curie, Paris)

will speak on

Mahler Measure of K3-Hypersurfaces

Wed 10th October 2007 at 4:00PM

Location: Mathematical Sciences Seminar Room

The Mahler measure of a multivariate polynomial has been introduced by Mahler in 1962 to measure the size of factors of polynomials. Later in 1996, Deninger guessed a link between the Mahler measure of a certain polynomial defining an elliptic curve and the L-series of the curve. I plan to show several examples which illustrate how this property extends to polynomials in 3 variables defining K3-hypersurfaces.

This talk is part of the **K-Theory, Quadratic Forms and Number Theory** series. For more, see
https://maths.ucd.ie/seminars