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K-Theory, Quadratic Forms and Number Theory Seminar

Dr. Masha Vlasenko (TCD)

will speak on

Linear Mahler measures and double L-values of modular forms

Thu 5th April 2012 at 4:00PM

Location: Mathematical Sciences Seminar Room (Ag 1.01)

There are plenty of examples and conjectures where the Mahler measure of a Laurent polynomial in several variables is equal to a special value of a certain L-function. The simplest linear Mahler measures $M_n = m(1 + x_1 + ... + x_n)$ we recomputed by Smythforn = 2, 3 about 30 years a go and a renoty et evaluated for larger n. Rodriguez - Villegas showed that both of these cases can be treated values of pairs of certain modular forms. Unfortunately the forms appear to be meromorphic in the most interesting cases 4. This is joint work with Evgeny Shinder.

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