



**UCD School of
Mathematics and Statistics**

University College Dublin
Belfield, Dublin 4, Ireland

Tel +353 1 716 2580
Fax +353 1 716 1196

**Scoil na
Matamaitice agus na Staitisticí UCD**

An Coláiste Ollscoile, Baile Átha Cliath
Belfield, Baile Átha Cliath 4, Éire

Email seminars@maths.ucd.ie
Web maths.ucd.ie/seminars

K-Theory, Quadratic Forms and Number Theory Seminar

Dr. Kevin Hutchinson (UCD)

will speak on

The dilogarithm and SL_2

Wed 6th October 2010 at 3:00PM

Location: Mathematical Sciences Seminar Room

The Bloch group of a field, which is constructed from the 5-term functional equation of the dilogarithm, arises in a variety of contexts: invariants of hyperbolic 3-manifolds, algebraic K-theory and the homology of GL_2 , *conformal field theory*.

We will discuss the classical Bloch group and some of the connections mentioned above, and will also discuss a new refinement of the Bloch group which allows us to calculate hitherto unknown parts of the homology of SL_2 .

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