K-Theory, Quadratic Forms and Number Theory Seminar

Professor Jan Bruinier (TU Darmstadt)

will speak on

Mock modular forms and infinite products

Wed 28th April 2010 at 4:00PM

Location: Mathematical Sciences Seminar Room

In this talk we consider Heegner divisors on modular curves. The regularized theta lifting of weakly holomorphic modular forms provides many relations among Heegner divisors given by Borcherds products. We explain that there are further relations of different types. There are "exotic" Borcherds type products given by liftings of mock theta functions. Moreover, there are relations corresponding to vanishing central derivatives of L-functions, which can be obtained as liftings of more gereral mock modular forms.

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