Seminar

K-Theory, Quadratic Forms and Number Theory

Title: Arithmetic aspects of the non-commutative harmonic oscillator

Speaker: Professor Kazufumi Kimoto (University of Ryukyus / IHES)

Date: Wed 15th October 2008 at 3:00PM

Location: Mathematical Sciences Seminar Room

Abstract: The eigenvalues of the ordinary (quantum) harmonic oscillator H=-D$^2/2+$
$x^2/2(D = d/dx)isgivenbySpec(H) = 1/2, 3/2, 5/2, ..., sothatitsspectralzetafunctionsum_{lambdainSpec}$
$commutativeharmonicoscillator", whichcanberegardedasaparametricdeformationand/orhigherdi$