ALGEBRA
SEMINAR

Equations for Hilbert modular surfaces

Abhinav Kumar
MIT

Abstract: I will describe a method to compute models for Hilbert modular surfaces $Y_-(D)$, parametrizing principally polarized abelian surfaces with real multiplication by the full ring of integers in the quadratic field of discriminant D, through moduli spaces of elliptic K3 surfaces. I will also show a couple of applications of these explicit equations, in number theory and in geometry/dynamics.

Wednesday, April 24, 2013, 3:00 pm
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE
EMORY UNIVERSITY