ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Giovanni Rosso

University of Cabridge

Date: Wednesday, April 19, 2017

Time: 3:00 PM

Location: 258 Hurley Hall

Lecture Title:

Eigenvarieties for (non-cuspidal) automorphic forms

Abstract

Since the seminal work of Serre and Swinnerton-Dyer, people have been interested in congruences between modular forms. After recalling the geometric interpretation of modular forms, we shall presents some results of Hida and Coleman on the existence of eigenvarieties, i.e. moduli spaces for systems of eigenforms. If time allows it, we shall explain how this can be generalised to more general automorphic forms. This is joint work with Riccardo Brasca.