## Number theory Seminar

Speaker: Kartik Prasanna, UCLA

Time and place: Monday, Nov. 14, MS 5137

Title: Elliptic curves, quadratic twists and p-(in)divisibility of L-values

## Abstract:

Let E be an elliptic curve over the rationals and p a fixed prime. A (very hard) question of Kolyvagin asks if there exists a quadratic discriminant d such that the Tate-Shafarevich group of the quadratic twist  $E_d$  has order prime to p. I will explain some recent results related to this question that are obtained by studying the p-adic properties of the Shimura correspondence.