

abstract

IAS/PRINCETON NUMBER THEORY SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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 that are related to this question, that are obtained by studying the p -adic properties of the Shimura correspondence.