

Title: Global Divisibility of Heegner Points and Tamagawa Numbers

Abstract: We improve Kolyvagin's upper bound on the order of the p -primary part of the Shafarevich-Tate group of an elliptic curve of rank one over a quadratic imaginary field with Heegner discriminant. If p is an odd prime which divides at most one Tamagawa number (e.g., if the conductor of the curve is prime), our bound is precisely the one predicted by the Birch and Swinnerton-Dyer conjectural formula.