

Speaker: Victor Kolyvagin

Title: Euler systems with applications to ideal class groups and elliptic curves

Abstract: The method of Euler Systems will be discussed together with demonstrations of applications to ideal class groups and elliptic curves. In the case of elliptic curves (defined over the field of rational numbers) of analytical rank greater than 1, the results we will present are conditional on some non-vanishing conjecture about Heegner points. The conjecture and its analogues will be discussed in more detail in the second part of the talk.