

The Bloch-Kato Conjecture and the method of Euler Systems

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Abstract

The Bloch-Kato conjecture is a wide reaching conjecture in number theory relating in great generality algebraic objects (Selmer groups) and analytic objects (zeros of L-functions). It generalises well known phenomena in number theory, most notably the Birch-Swinnerton-Dyer conjecture about elliptic curves; one of the Clay institute millennium problems. I hope to provide a low tech introduction to the conjecture, defining the key concepts, and discuss important cases. If time permits, I will briefly discuss a modern approach to solving the conjecture for a range of cases using Euler systems.

Time: 12 p.m, 10th November 2021

Location: B3.02

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Website: <https://warwick.ac.uk/fac/sci/math/research/events/seminars/areas/postgraduate/21-22>