

Stickelberger elements and the structure of arithmetic objects

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Abstract: In this talk, I plan to discuss on various aspects of relations between the Stickelberger elements (p -adic L -functions) and the structure of ideal class groups and Selmer groups as Galois modules. In particular, I will talk on a refinement of the usual main conjectures using the (initial and higher) Fitting ideals, and also on the Kolyvagin systems of Gauss sum type.