

Main conjectures and p -adic Stark conjectures for Artin motives

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Abstract

Let p be a prime number. We introduce the Selmer group attached to an Artin motive that has good reduction at p and we show it is torsion over the Iwasawa algebra. We give a conjectural description of a generator of its characteristic ideal in terms of special values of Artin L -functions and a new L -invariant. A large part of this talk will be devoted to explain the motivation behind these conjectures and to provide evidence for their validity.