

The status of the proof of Bloch-Kato Conjecture:

The "root" paper for the proof is [1]. It was submitted to the Annals of Mathematics on January 4, 2009 and accepted for publication on May 25, 2010.

The proof contained in this paper is almost identical to the proof which was posted to K-theory preprint archive on June 16, 2003. The only difference between the 2003 and 2009 versions is in the proof of an intermediate result (Proposition 2.5 in the 2003 version which has become Proposition 2.6 in the 2008 version). The new proof of this proposition was needed because Lemma 2.2 which was formulated without a proof in the 2003 version turned out to be false. The argument in the 2008 version which avoids the use of that lemma is based on an idea of C. Weibel.

The main reason that it took me so long to publish the proof is that it relies on the results of the paper [2] which had to be published first (it was accepted for publication in the Publication IHES on February 4, 2010). In particular Weibel's argument which replaced Lemma 2.2 is based on the results of [2].

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References

- [1] Vladimir Voevodsky. On motivic cohomology with \mathbf{Z}/l -coefficients. *To appear in Annals of Mathematics* (see also <http://arxiv.org/abs/0805.4430>), 2009.
- [2] Vladimir Voevodsky. Motivic Eilenberg-MacLane spaces. *To appear in Publ. IHES* (see also <http://arxiv.org/abs/0805.4432>), 2010.