

1079-11-28

Andreas Nickel* (andreas.nickel@mathematik.uni-regensburg.de), Universitaet Regensburg, Fakultaet fuer Mathematik, Universitaetsstr. 31, 93053 Regensburg, Germany. *On the non-abelian Brumer-Stark conjecture.*

For abelian Galois CM-extensions of number fields the Brumer-Stark conjecture and Brumer's conjecture have been studied rather extensively. We recall their generalizations to arbitrary CM-extensions and show, how these conjectures may be deduced from the conjectural vanishing of certain μ -invariants under certain hypotheses. In particular, we show that these hypotheses are fulfilled outside the 2-primary part if the ground field is \mathbb{Q} . (Received November 18, 2011)