

Let L/K be a finite Galois extension of number fields with Galois group G . If G is abelian, a classical conjecture of Brumer asserts that certain so-called Stickelberger elements (constructed via values of Artin L -functions) lie in the annihilator of the class group of L . We discuss how to generalize this conjecture to arbitrary G , and its relation to the equivariant Tamagawa number conjecture. Moreover, we present new results toward a proof of the (non-abelian) Brumer conjecture.