1078-11-114 **Jonathan W Sands*** (sands@cems.uvm.edu), Dept. of Mathematics and Statistics, 16 Colchester Ave., Burlington, VT 05401. *L-functions at the origin and annihilation of S-class* groups in multiquadratic extensions.

Fix any Galois extension K/F of number fields with Galois group of exponent 2, and let S be a finite set of primes of F containing the infinite primes and those which ramify in K. We obtain non-trivial annihilators for the S-class group of K from the S-modified equivariant L-function of K/F, regardless of the order of vanishing at the origin. (Received November 29, 2011)