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David J Saltman* (saltman@math.utexas.edu). *Finite u Invariant and Bounds on Cohomology Symbol Lengths.*

At an AIM workshop in January 2011, Parimala asked whether in a field with finite u invariant there was a bound on the “symbol length” of any element of μ_2 cohomology in any degree. We answer this question in the affirmative for fields of characteristic 0, and at the same time get bounds on the Galois groups that realize all the properties of these cohomology elements and show that our results extend to finite field extensions. (Received September 12, 2012)