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Robert J Lemke Oliver* (rlemkeo@emory.edu). *Multiplicative functions dictated by Artin symbols.*

Granville and Soundararajan have recently put forward the notion that generic multiplicative functions deserve greater study in the area of analytic number theory. Here we study such functions which arise from the arithmetic of number fields. For each finite Galois extension K/\mathbb{Q} , we construct a natural class \mathcal{S}_K of completely multiplicative functions whose values are dictated by Artin symbols, and we show that the only functions in \mathcal{S}_K exhibiting greater than expected cancellation are Dirichlet characters. (Received December 03, 2012)