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*Non-vanishing of cubic L-functions.*

Chowla conjectured that  $L(1/2, \chi)$  never vanishes, for any  $\chi$  a Dirichlet character. Soundararajan showed that more than 87.5% of the values  $L(1/2, \chi_d)$ , for  $\chi_d$  a quadratic character, do not vanish. Much less is known about cubic characters. Baier and Young showed that more than  $X^{6/7-\epsilon}$  of  $L(1/2, \chi)$  are non-vanishing, for  $\chi$  a primitive, cubic character of conductor of size up to  $X$ . In joint work with C. David and M. Lalin, we show that a positive proportion of these central  $L$ -values are non-vanishing in the function field setting, but the same techniques can be used to prove the analogous result in the number field setting, conditional on the Generalized Riemann Hypothesis. (Received January 17, 2020)