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Jordan S Ellenberg, Wanlin Li* (wanlinli@mit.edu) and **Mark Shusterman**. *Nonvanishing of hyperelliptic zeta functions over finite fields.*

Fixing $t \in \mathbb{R}$ and a finite field \mathbb{F}_q of odd characteristic, we give an explicit upper bound on the proportion of genus g hyperelliptic curves over \mathbb{F}_q whose zeta function vanishes at $\frac{1}{2} + it$. Our upper bound is independent of g and tends to 0 as q grows. (Received January 06, 2020)