

1145-11-2774      **Joseph Gunther\*** (jgunther7@gmail.com). *Irrational points on hyperelliptic curves.*

We consider genus  $g$  hyperelliptic curves with a marked rational Weierstrass point. If  $d < g$  is odd, we prove there exists  $B_d$  such that a positive proportion of these curves have at most  $B_d$  points of degree  $d$ . If  $d < g$  is even, we similarly bound degree  $d$  points not pulled back from points of degree  $\frac{d}{2}$  on the projective line. The proof uses tropical geometry work of Park as well as work of Bhargava and Gross on Selmer groups of odd hyperelliptic curves. This is joint work with Jackson Morrow. (Received September 25, 2018)