JOSEPH GUNTHER, University of Wisconsin-Madison/Orsay

Irrational points on hyperelliptic curves

We consider genus g hyperelliptic curves over $\mathbb{Q}$ 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. This is joint work with Jackson Morrow.