

1145-11-1572

Aaron Landesman* (aaronlandesman@stanford.edu). *The geometric average size of Selmer groups over function fields.*

We discuss the problem of computing the average size of the n -Selmer group of elliptic curves over $\mathbb{F}_q(t)$, after first taking a large q limit. Our methods suggest a heuristic for the distributions of Selmer groups: the moments are the number of orbits of certain orthogonal group actions. (Received September 24, 2018)