

1086-11-1957 **Jennifer Park*** (jmypark@math.mit.edu), 77 Massachusetts Avenue, Cambridge, MA 02139. *A symmetric version of Chabauty's method on families of hyperelliptic curves.*

We will discuss how Chabauty's method could be applied to families of hyperelliptic curves to obtain a bound on the number of non-trivial quadratic points on hyperelliptic curves. This can be combined with the recent result of Bhargava and Gross on the average rank of 2-Selmer groups of hyperelliptic curves, allowing one to describe the statistics of non-trivial quadratic points. (Received September 24, 2012)