

1063-11-148

Alina Bucur*, UCSD, 9500 Gilman Dr #0112, La Jolla, CA 92093, and **Chantal David**,
Brooke Feigon and **Matilde Lalin**. *The number of points on curves over finite fields.*

We will talk about the distribution of the number of points on two families of curves over a finite field with q elements: cyclic covers of \mathbb{P}^1 and plane curves. The Katz-Sarnak general philosophy makes predictions about the statistics for such families in the large q limit as one fixes the genus. We will look at the complementary direction, namely at the behavior as the genus increases, but the field of definition is fixed. (Received August 14, 2010)