

Number Theory & Combinatorics Seminar

Mathematics & Computer Science

Weekly Seminar

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Chebyshev bias for elliptic curves

Abstract:

Recently, there's been a lot of talk about a result of Fiorilli, relating Chebyshev bias for elliptic curves and ranks of elliptic curves, during coffee hour. At the time of discussion all we had at our disposal was a vague abstract from a talk that Fiorilli gave at AMS in San Diego, so I had a hard time figuring out what was going on. As luck would have it, few weeks ago, I saw a talk by William Stein relating Chebyshev bias and ranks of elliptic curves, and this past week Fiorilli sent a preprint to Farzad. This talk will try to summarize all of these recent developments. In particular, I will describe what we mean by Chebyshev's bias for elliptic curves, and how this bias is related to the (analytic) rank of an elliptic curve.

Monday—25 February 2013

Room: E575

Time: 12:00—12:50 pm

For future seminars in this series, visit the seminar page at:

<http://www.cs.uleth.ca/~nathanng/ntcoseminar/>

EVERYONE IS WELCOME!