

Philadelphia Area Number Theory Seminar

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16-rank of class groups of quadratic number fields

Abstract: We will discuss how Vinogradov's method applies to the study of the 2-part of class groups in certain thin families of quadratic number fields. We will show how the method yields density results for the 16-rank in the families of quadratic number fields parametrized by discriminants of the form $-4p$ and $-8p$, with p prime. We will also explain certain limitations of the method arising from reliance on short character sum estimates.

Wednesday, April 5, 2017
2:40–4PM

Bryn Mawr College
Department of Mathematics
Park Science Center **328**

Tea and refreshments at 2:20PM in Park 355