

Philadelphia Area Number Theory Seminar

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Moments of cubic L -functions over function fields

Abstract: I will talk about some recent work with Chantal David and Matilde Lalin about the mean value of L -functions associated to cubic characters over $\mathbb{F}_q[t]$ when $q \equiv 1 \pmod{3}$. I will explain how to obtain an asymptotic formula which relies on obtaining cancellation in averages of cubic Gauss sums over function fields. I will