

abstract

Special Lectures in Analysis/Number Theory
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

Thanks to the work of Katz and Sarnak on L-functions over function fields, we know that the Frobenius classes associated to L-functions of hyperelliptic curves over a finite field with q elements, F_q , becomes equidistributed in the unitary symplectic group in the limit as the genus of the curve is fixed and q is large. In this talk we review this and related results about L-functions associated to hyperelliptic curves over the rational function field, specifically we present some results about moments of L-functions attached to an ensemble of Hyperelliptic curves in the opposite limit studied by Katz and Sarnak, we derive asymptotic formulas for the moments as q is fix and the genus is large.