

Special Lectures in Analysis/Number Theory

Submitted by admin on Mon, 03/18/2013 - 10:01

Mean Values of L-Functions for the Hyperelliptic Ensemble

Julio Andrade

Brown University

Date & Time: Wed, 03/27/2013 - 15:45 - 16:30

Location: West Bldg. Lecture Hall

Video Link:

<http://video.ias.edu/ANtheory/1213/0327-JulioAndrade>

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.

45984

Dorothea Phares

phares@ias.edu

Mon, 03/11/2013 - 15:49

Mon, 03/18/2013 - 13:56

terms:

- [School of Mathematics](#)