

Conference SAGA - Symposium on Arithmetic Geometry and its Applications

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Title: *Frobenius traces for abelian varieties*

Abstract: In the 1970s, Serge Lang and Hale Trotter proposed a conjectural asymptotic formula for the number of primes for which the Frobenius traces of an elliptic curve defined over the rationals equal a given integer. We will discuss generalizations of this conjecture to higher dimensional abelian varieties. This is joint work with Tian Wang (University of Illinois at Chicago).