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Amir Akbary* (amir.akbary@uleth.ca), Department of Mathematics and Computer Sci.,
University of Lethbridge, Lethbridge, Alberta T1K 3M4, Canada. *A geometric variant of
Titchmarsh divisor problem.*

We formulate a geometric analogue of the Titchmarsh Divisor Problem in the context of elliptic curves and more generally for abelian varieties. For any abelian variety A defined over rationals, we study the asymptotic distribution of the primes which split completely in the division fields of A . (Received December 11, 2011)