

Queen's Algebraic Geometry — Seminar —

CUP-PRODUCT PROBLEMS ON AN ABELIAN VARIETY

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Abstract

This is a report on work in progress concerning certain cup-product problems of line bundles on an abelian variety. At present the state of affairs is as follows: *(i)* Such problems are not, in general, independent of the numerical classes of the given line bundles; *(ii)* After scaling every non-trivial problem results in a surjective map; *(iii)* Variants of the above hold for (higher rank) vector bundles and translations thereof. As an application we deduce that, after scaling, certain (higher) skew-Pontrjagin products are globally generated.

Monday 14 November 2011
16:30 – 17:30
319 Jeffery Hall