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Cup-product problems on an abelian variety

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.