

Computing linear relations between 1-periods

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I will sketch a modestly practical algorithm to compute all linear relations with algebraic coefficients between any given finite set of 1-periods. This is based on the "qualitative description" of these relations by Huber and Wüstholz. We combine this result with the recent work on computing the endomorphism ring of abelian varieties by Bruin, Costa, Mascot, Lombardo, Sijtsling, Voight, Zotine, and others. This is a work in progress with Joël Ouaknine and James Worrell.