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## Periods Hilbert Modular Surfaces Progress

**periods of  $k^3$  surfaces - arxiv** - periods and the shioda-inose structures of  $k^3$  surfaces, the special values of icosahedral invariants ... moreover, we give an explicit expression of the canonical model of the shimura variety for the simplest case via the periods of  $k^3$  surfaces. ... of the canonical model of the hilbert modular surface as a shimura variety for the real ... **equations for hilbert modular surfaces - mit** - hilbert modular surfaces 2/31. introduction outline of talk ... the periods  $\omega_1$  and  $\omega_2$  can be ... **periods of hilbert modular forms and rational points on ...** - periods of hilbert modular forms and rational points on elliptic curves henri darmon and adam logan ... replaced by a hilbert modular variety does not appear to exist. the usual ex- ... parametrising abelian surfaces with real multiplications by  $\mathcal{O}_f$ —although this moduli **periods of hilbert modular forms and rational points on ...** - periods of hilbert modular forms and rational points on elliptic curves henri darmon adam logan september 5, 2007 abstract let  $e$  be a modular elliptic curve over a totally real field. **arithmetic intersection on a hilbert modular surface and ...** - arithmetic intersection on a hilbert modular surface and the faltings height tonghai yang ... and kuhn's work on arithmetic hilbert modular surfaces. in other cases, the ... arithmetic intersection on a hilbert modular surface and the faltings height 5 viewed as an arithmetic chow cycle, ... **arithmetic of the asai l-function for hilbert modular forms** - of hilbert modular surfaces. speci cally, the l-function  $l(h_2(x);s)$  for a hilbert modular surface is a product of asai l-functions corresponding to such forms, and consequently it is the asai l-function which arises in the statement of beilinson's conjectures for  $h_2$  of hilbert modular surfaces. we will now recall this connection. **tate conjectures for hilbert modular surfaces v. kumar ...** - returning to hilbert modular surfaces, this leaves the question of the extra cycles in the complex multiplication case. this case was settled by klingenberg and independently by m and ra- ... (1,1) cohomology class with rational periods. such a class is rational, and so is a hodge  **$k^3$  surfaces - icerm** -  $k^3$  surfaces noam elkies 0. what is a  $k^3$  surface ... we form periods  $r h_2(x;z)! 2c 22$  with ... cm points on modular curves and shimura curves, and the modular curves live in hilbert modular surfaces, etc. therefore, lattice embeddings give rise to formulas for igusa invariants **moduli spaces of isoperiodic forms on riemann surfaces** - hilbert modular surfaces. the moduli space  $a(l)$  can be identified with a slice  $\{\tau_1\} \times h$  of the universal cover of the hilbert modular surface  $xd = (h \times h)/sl_2(\mathcal{O} \oplus \mathcal{O} \vee d)$ . the normalization (1.3) corresponds to  $\tau_1 = i \sqrt{d}$   $a(l)$  provides an overview of the space of all eigenforms for real multiplication. **elliptic curves, hilbert modular forms, and the hodge ...** - elliptic curves, hilbert modular forms, and the hodge conjecture don blasius september 8, 2004 1 introduction ... with alternative first steps using quaternionic surfaces. the proof given here is a little simpler, but the earlier construction is still useful. in particular, it **abstract - math.umaine** - abstract we prove that tate classes on siegel 3-folds are spanned by the images of hilbert modular surfaces at degree 2 and by the images of shimura curves at degree 4. it is done by a careful study of the period pairing between degree-4 rapidly decreasing cohomological forms and hilbert modular surfaces. contents 1. notations 5 2. **moduli spaces of isoperiodic forms on riemann surfaces** - moduli spaces of isoperiodic forms on riemann surfaces curtismullen 6may2012 abstract this paper describes the intrinsic geometry of a leaf  $a(l)$  of the absolute period foliation of the hodge bundle  $\Omega_m g$ : its singular euclidean structure, its natural foliations and its discretized teichmüller dynamics. **arxiv:1607.05465v2 [math.nt] 27 jan 2017** - surfaces. 1. introduction let  $f$  be a number field and  $n \subset \mathcal{O}_f$  of an integral ideal. let  $f$  be a modular newform over ... [oda82] describes the complex period lattice of  $af$  in terms of certain periods of the hilbert modular form  $f$ , and is the basis of the algorithm introduced in [dem08] to compute **singular kummer surfaces and hilbert modular forms\* by h ...** - surfaces of invariant  $a$  is just the hilbert modular group associated with  $q$  ... fixed points are the images in  $t$  of the half-periods including 0. if  $f_1, f_2, f_3$  denote three even meromorphic  $f$ -inctions on  $t$ , then the (afine) image ... the hilbert modular group is the quotient of  $t$ , by its center. let  $a,$ .

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