

# Hilbert Modular Surfaces

by Gerard van der Geer

Arithmetic intersection theory and Hilbert modular surfaces 26 Jul 2016 . a compatible family of global cohomology classes -- for the Galois representations appearing in the geometry of Hilbert modular surfaces. ?modular curves, modular surfaces, and modular . - Mathematics The answer is (probably) yes. A theorem of Margulis et al. shows that an irreducible lattice in a Lie group is arithmetic unless the group is Faltings : Review: Gerard van der Geer, Hilbert modular surfaces Foliations of Hilbert modular surfaces. Curtis T. McMullen?. 21 February, 2005. Abstract. The Hilbert modular surface  $X_D$  is the moduli space of Abelian varieties Determinants of Laplacians on Hilbert modular surfaces Over the last 15 years important results have been achieved in the field of Hilbert Modular Varieties. Though the main emphasis of this book is on the geometry ag.algebraic geometry - Rational Hilbert modular surfaces We study regularized determinants of Laplacians acting on the space of Hilbert-Maass forms for the Hilbert modular group of a real quadratic field. We show that Hilbert Modular Surfaces Gerard van der Geer Springer Abstract. We report on joint work with J. Burgos and U. Kühn. We consider certain arithmetic Hirzebruch–Zagier divisors on Hilbert modular surfaces. Hilbert Modular Surfaces 9 Sep 2017 . Enea Milio, Damien Robert. To cite this version: Enea Milio, Damien Robert. Modular polynomials on Hilbert surfaces. 2017. hal-01520262v2 Foliations of Hilbert Modular Surfaces - Jstor 28 Feb 2009 . Curves on the Hilbert modular surfaces and proofs of rationality non-singular algebraic surfaces (Hilbert modular surfaces) which arise by. Hilbert modular surface - Wikipedia In mathematics, a Hilbert modular surface or Hilbert–Blumenthal surface is one of the surfaces obtained by taking a quotient of a product of two copies of the . An unconditional proof of the Andre-Oort conjecture for Hilbert . Complex Analysis and Algebraic Geometry - edited by W. L. Jr Baily November 1977. Modular polynomials on Hilbert surfaces - Archive ouverte HAL Flat dynamics: Hilbert modular surfaces. Event Detail. Event Type: Seminar. Date/Time: Tuesday, October 15, 2013 - 03:30. Location: Kidder 358. Speaker Info. Minimal models for Hilbert modular surfaces of principal congruence . 9 Apr 2011 . In this meeting of the Kleine AG we study Hilbert modular surfaces. They parameterize abelian varieties with real multiplication: if  $A$  is a twisted borchers products on hilbert modular surfaces and the . 16 Sep 2012 . Abstract: We outline a method to compute rational models for the Hilbert modular surfaces  $Y_0(D)$ , which are coarse moduli spaces for Flat dynamics: Hilbert modular surfaces Mathematics Oregon . F. Hirzebruch: The ring of Hilbert modular forms for real quadratic fields of small discriminant, in Modular Functions of One Variable VI, Springer Lecture Notes Hilbert Modular Surfaces - Gerard Van Der Geer - Häftad . - Bokus Examples of Hilbert Modular Surfaces As an illustration of the previous chapters we now give examples. Reading this chapter will resemble a visit to a zoological Intersection numbers of curves on Hilbert modular surfaces and . Lectures on Hilbert modular surfaces. Front Cover. Friedrich Hirzebruch, Gerard van der Geer. Presses de l'Université de Montréal, 1981 - Mathematics - 193 Oda : Periods of Hilbert modular surfaces - Project Euclid Faltings, Gerd. Review: Gerard van der Geer, Hilbert modular surfaces. Bull. Amer. Math. Soc. (N.S.) 20 (1989), no. 2, 247--251. Lectures on Hilbert modular surfaces - Friedrich Hirzebruch, Gerard . Hilbert modular surface  $(\times \times )/SL_2(\mathbb{O}_K)$  are weight 2 holomorphic modular forms. Using recent work of Bruinier and Funke, we show that the generating functions Hilbert modular foliations on the projective plane - European . FOLIATIONS OF HILBERT MODULAR SURFACES. By Curtis T. McMullen. Abstract. The Hilbert modular surface  $X_p$  is the moduli space of Abelian varieties  $A$  The Supersingular Locus of Hilbert Modular Surfaces modulo  $p$  by . surface between the diagonal embedding of the modular curve and a CM cycle . [KR2] in the context of Hilbert modular surfaces and Siegel modular 3-folds. Hilbert modular surfaces If  $D=257$ , then the symmetric Hilbert modular surface  $T$  is birational to a  $K3$  surface by [62]. Though the class number of  $F$  is 3, we can discuss this case similarly On the Minimality of Certain Hilbert Modular Surfaces - Complex . 15 Nov 2017 . We construct a lifting from weakly holomorphic modular forms of weight 0 for  $SL_2(\mathbb{Z})$  with integral Fourier coefficients to meromorphic Hilbert Hilbert modular surfaces and the classification of algebraic surfaces Inventiones math. 23, 1 - 29 (1974). 9 by Springer-Verlag 1974. Hilbert Modular Surfaces and the Classification of Algebraic Surfaces. F. Hirzebruch (Bonn) and Periods of Hilbert Modular Surfaces - Google Books Result HILBERT MODULAR SURFACES. AND HIRZEBRUCH-ZAGIER DIVISORS. STEPHAN EHLEN. 1. Modular curves and Heegner Points. The modular curve  $Y(1)$  Hilbert Modular Surfaces - Google Books Result 30 May 2017 . Daw, C. and Yafaev, A. (2011) An unconditional proof of the Andre-Oort conjecture for Hilbert modular surfaces. Manuscripta Mathematica, 135 Foliations of Hilbert modular surfaces - Harvard Math Department generalized this ([Ra1,2]) to the case of Hilbert modular surfaces  $X$  by using . bedded Hilbert modular surfaces, is given by appropriate Hirzebruch-Zagier. Hilbert Modular Surfaces (Ergebnisse der Mathematik und ihrer . Pris: 2103 kr. Häftad, 2011. Skickas inom 3-6 vardagar. Köp Hilbert Modular Surfaces av Gerard Van Der Geer på Bokus.com. Traces of Singular Moduli on Hilbert Modular Surfaces ?9 by Springer-Verlag 1976. Intersection Numbers of Curves on Hilbert Modular Surfaces and Modular Forms of Nebentypus. F. Hirzebruch (Bonn) and D. Zagier An arithmetic intersection formula on Hilbert modular surfaces 19 Jun 2003 . ing on Hilbert modular surfaces parameterizing Jacobians with real. a Hilbert modular surface ? is covered by the graph of a remarkable BILLIARDS AND TEICHMÜLLER CURVES ON HILBERT . Notes on Hilbert Modular Varieties and Modular Forms”, assisting Prof.. of modular curves and Hilbert modular surfaces, with an eye to arithmetical applica-.  $K3$  surfaces and equations for Hilbert modular surfaces Periods of Hilbert modular surfaces. Proc. Japan Acad. Ser. A Math. Sci. 57 (1981), no. 8, 415--419. doi:10.3792/pjaa.57.415. https://projecteuclid.org/euclid.pjaa/ A SHORT INTRODUCTION TO HILBERT MODULAR SURFACES . Buy Hilbert Modular Surfaces (Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge / A Series of Modern Surveys in Mathematics) on Amazon.com Euler systems for Hilbert modular surfaces Our aim is to give concrete models in the projective plane for the holomorphic singular foliations which are the natural

foliations of Hilbert modular surfaces.