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A Survey of the Hodge Conjecture
Second Edition

James D. Lewis

with an appendix by
B. Brent Gordon

Survey Of The Hodge Conjecture

Daniel Huybrechts

Survey Of The Hodge Conjecture:

   A Survey of the Hodge Conjecture James Dominic Lewis,1999 This book provides an introduction to a topic of central interest in transcendental algebraic geometry the Hodge conjecture Consisting of 15 lectures plus addenda and appendices the volume is based on a series of lectures delivered by Professor Lewis at the Centre de Recherches Mathematiques CRM The book is a self contained presentation completely devoted to the Hodge conjecture and related topics It includes many examples and most results are completely proven or sketched The motivation behind many of the results and background material is provided This comprehensive approach to the book gives it a user friendly style Readers need not search elsewhere for various results The book is suitable for use as a text for a topics course in algebraic geometry It includes an appendix by B Brent Gordon   A Survey of the Hodge Conjecture James D. Lewis,B. Brent Gordon,1999-06-30 This book provides an introduction to a topic of central interest in transcendental algebraic geometry the Hodge conjecture Consisting of 15 lectures plus addenda and appendices the volume is based on a series of lectures delivered by Professor Lewis at the Centre de Recherches Mathematiques CRM The book is a self contained presentation completely devoted to the Hodge conjecture and related topics It includes many examples and most results are completely proven or sketched The motivation behind many of the results and background material is provided This comprehensive approach to the book gives it a user friendly style Readers need not search elsewhere for various results The book is suitable for use as a text for a topics course in algebraic geometry includes an appendix by B Brent Gordon   *A Survey of the Hodge Conjecture* James Dominic Lewis,1999 This book provides an introduction to a topic of central interest in transcendental algebraic geometry the Hodge conjecture Consisting of 15 lectures plus addenda and appendices the volume is based on a series of lectures delivered by Professor Lewis at the Centre de Recherches Math matiques CRM The book is a self contained presentation completely devoted to the Hodge conjecture and related topics It includes many examples and most results are completely proven or sketched The motivation behind many of the results and background material is provided This comprehensive approach to th

   Recent Advances in Hodge Theory Matt Kerr,Gregory Pearlstein,2016-02-04 Combines cutting edge research and expository articles in Hodge theory An essential reference for graduate students and researchers   *Hodge Theory and Complex Algebraic Geometry I: Volume 1* Claire Voisin,2002-12-05 The first of two volumes offering a modern introduction to Kaehlerian geometry and Hodge structure The book starts with basic material on complex variables complex manifolds holomorphic vector bundles sheaves and cohomology theory the latter being treated in a more theoretical way than is usual in geometry The author then proves the Kaehler identities which leads to the hard Lefschetz theorem and the Hodge index theorem The book culminates with the Hodge decomposition theorem The meanings of these results are investigated in several directions Completely self contained the book is ideal for students while its content gives an account of Hodge theory and complex algebraic geometry as has been developed by P Griffiths and his school by P Deligne and by S Bloch The text is

complemented by exercises which provide useful results in complex algebraic geometry **The Arithmetic and Geometry of Algebraic Cycles** B. Brent Gordon,James D. Lewis,Stefan Müller-Stach,Shuji Saito,Noriko Yui,2012-12-06 The NATO Advanced Study Institute on The Arithmetic and Geometry of Algebraic Cycles was held at the Banff Centre for Conferences in Banff Al berta Canada from June 7 until June 19 1998 This meeting was organized jointly with Centre de Recherches Mathematiques CRM Montreal as one of the CRM Summer schools which take place annually at the Banff Center The conference also served as the kick off activity of the CRM 1998 99 theme year on Number Theory and Arithmetic Geometry There were 109 participants who came from 17 countries Belgium Canada China France Germany Greece India Italy Japan Mexico Netherlands mania Russia Spain Switzerland the United Kingdom and the United States During a period of two weeks 41 invited lectures and 20 contributed lec tures were presented Four lectures by invited speakers were delivered every day followed by two sessions of contributed talks Many informal discussions and working sessions involving small groups were organized by individual partic ipants In addition participants reprints and preprints were displayed through out in a lounge next to the auditorium which further enhanced opportunities for communication and interaction Hodge Theory, Complex Geometry, and Representation Theory Robert S. Doran,Greg Friedman,Scott Nollet,2014 This volume contains the proceedings of an NSF Conference Board of the Mathematical Sciences CBMS regional conference on Hodge theory complex geometry and representation theory held on June 18 2012 at the Texas Christian University in Fort Worth TX Phillip Griffiths of the Institute for Advanced Study gave 10 lectures describing now classical work concerning how the structure of Shimura varieties as quotients of Mumford Tate domains by arithmetic groups had been used to understand the relationship between Galois representations and automorphic forms He then discussed recent breakthroughs of Carayol that provide the possibility of extending these results beyond the classical case His lectures will appear as an independent volume in the CBMS series published by the AMS This volume which is dedicated to Phillip Griffiths contains carefully written expository and research articles Expository papers include discussions of Noether Lefschetz theory algebraicity of Hodge loci and the representation theory of SL2 R Research articles concern the Hodge conjecture Harish Chandra modules mirror symmetry Hodge representations of Q algebraic groups and compactifications distributions and quotients of period domains It is expected that the book will be of interest primarily to research mathematicians physicists and upper level graduate students **Algebraic Cycles and Hodge Theory** Mark L. Green,Jacob P. Murre,Claire Voisin,2004-09-02 The main goal of the CIME Summer School on Algebraic Cycles and Hodge Theory has been to gather the most active mathematicians in this area to make the point on the present state of the art Thus the papers included in the proceedings are surveys and notes on the most important topics of this area of research They include infinitesimal methods in Hodge theory algebraic cycles and algebraic aspects of cohomology and k theory transcendental methods in the study of algebraic cycles **Algebraic Geometry** Mauro C. Beltrametti,Fabrizio Catanese,Ciro Ciliberto,Antonio Lanteri,Claudio Pedrini,2008-08-22 The volume

consists of invited refereed research papers The contributions cover a wide spectrum in algebraic geometry from motives theory to numerical algebraic geometry and are mainly focused on higher dimensional varieties and Minimal Model Program and surfaces of general type A part of the articles grew out a Conference in memory of Paolo Francia 1951 2000 held in Genova in September 2001 with about 70 participants **Complex Abelian Varieties** Christina Birkenhake,Herbert Lange,2013-03-14 This book explores the theory of abelian varieties over the field of complex numbers explaining both classic and recent results in modern language The second edition adds five chapters on recent results including automorphisms and vector bundles on abelian varieties algebraic cycles and the Hodge conjecture far more readable than most it is also much more complete Olivier Debarre in Mathematical Reviews 1994 **Open Problems in Mathematics** John Forbes Nash, Jr.,Michael Th. Rassias,2016-07-05 The goal in putting together this unique compilation was to present the current status of the solutions to some of the most essential open problems in pure and applied mathematics Emphasis is also given to problems in interdisciplinary research for which mathematics plays a key role This volume comprises highly selected contributions by some of the most eminent mathematicians in the international mathematical community on longstanding problems in very active domains of mathematical research A joint preface by the two volume editors is followed by a personal farewell to John F Nash Jr written by Michael Th Rassias An introduction by Mikhail Gromov highlights some of Nash s legendary mathematical achievements The treatment in this book includes open problems in the following fields algebraic geometry number theory analysis discrete mathematics PDEs differential geometry topology K theory game theory fluid mechanics dynamical systems and ergodic theory cryptography theoretical computer science and more Extensive discussions surrounding the progress made for each problem are designed to reach a wide community of readers from graduate students and established research mathematicians to physicists computer scientists economists and research scientists who are looking to develop essential and modern new methods and theories to solve a variety of open problems **The Regulators of Beilinson and Borel** José Ignacio Burgos Gil,2002 This book contains a complete proof of the fact that Borel s regulator map is twice Beilinson s regulator map The strategy of the proof follows the argument sketched in Beilinson s original paper and relies on very similar descriptions of the Chern Weil morphisms and the van Est isomorphism The book has two different parts The first one reviews the material from algebraic topology and Lie group theory needed for the comparison theorem Topics such as simplicial objects Hopfalgebras characteristic classes the Weil algebra Bott s Periodicity theorem Lie algebra cohomology continuous group cohomology and the van Est Theorem are discussed The second part contains the comparison theorem and the specific material needed in its proof such as explicit descriptions of theChern Weil morphism and the van Est isomorphisms a discussion about small cosimplicial algebras and a comparison of different definitions of Borel s regulator *Lectures on Hilbert Modular Varieties and Modular Forms* Eyal Zvi Goren,2002 This book is devoted to certain aspects of the theory of p adic Hilbert modular forms and moduli spaces of abelian varieties with real multiplication The theory of p adic

modular forms is presented first in the elliptic case introducing the reader to key ideas of N M Katz and J P Serre It is re interpreted from a geometric point of view which is developed to present the rudiments of a similar theory for Hilbert modular forms The theory of moduli spaces of abelianvarieties with real multiplication is presented first very explicitly over the complex numbers Aspects of the general theory are then exposed in particular local deformation theory of abelian varieties in positive characteristic The arithmetic of p adic Hilbert modular forms and the geometry ofmoduli spaces of abelian varieties are related This relation is used to study q expansions of Hilbert modular forms on the one hand and stratifications of moduli spaces on the other hand The book is addressed to graduate students and non experts It attempts to provide the necessary background to all concepts exposed in it It may serve as a textbook for an advanced graduate course

Complex Geometry Daniel Huybrechts,2005 Easily accessible Includes recent developments Assumes very little knowledge of differentiable manifolds and functional analysis Particular emphasis on topics related to mirror symmetry SUSY Kaehler Einstein metrics Tian Todorov lemma **Convexity Properties of Hamiltonian Group Actions** Victor Guillemin,Reyer Sjamaar,2005 This is a monograph on convexity properties of moment mappings in symplectic geometry The fundamental result in this subject is the Kirwan convexity theorem which describes the image of a moment map in terms of linear inequalities This theorem bears a close relationship to perplexing old puzzles from linear algebra such as the Horn problem on sums of Hermitian matrices on which considerable progress has been made in recent years following a breakthrough by Klyachko The book presents a simple local model for the moment polytope valid in the generic case and an elementary Morse theoretic argument deriving the Klyachko inequalities and some of their generalizations It reviews various infinite dimensional manifestations of moment convexity such as the Kostant type theorems for orbits of a loop group due to Atiyah and Pressley or a symplectomorphism group due to Bloch Flaschka and Ratiu Finally it gives an account of a new convexity theorem for moment map images of orbits of a Borel su This volume is recommended for independent study and is suitable for graduate students and researchers interested in symplectic geometry algebraic geometry and geometric combinatorics Information for our distributors Titles in this series are co published with the Centre de Recherches Mathematiques *Classification and Identification of Lie Algebras* Libor Šnob,Pavel Winternitz,2017-04-05 The purpose of this book is to serve as a tool for researchers and practitioners who apply Lie algebras and Lie groups to solve problems arising in science and engineering The authors address the problem of expressing a Lie algebra obtained in some arbitrary basis in a more suitable basis in which all essential features of the Lie algebra are directly visible This includes algorithms accomplishing decomposition into a direct sum identification of the radical and the Levi decomposition and the computation of the nilradical and of the Casimir invariants Examples are given for each algorithm For low dimensional Lie algebras this makes it possible to identify the given Lie algebra completely The authors provide a representative list of all Lie algebras of dimension less or equal to 6 together with their important properties including their Casimir invariants The list is ordered in

a way to make identification easy using only basis independent properties of the Lie algebras They also describe certain classes of nilpotent and solvable Lie algebras of arbitrary finite dimensions for which complete or partial classification exists and discuss in detail their construction and properties The book is based on material that was previously dispersed in journal articles many of them written by one or both of the authors together with their collaborators The reader of this book should be familiar with Lie algebra theory at an introductory level **Hodge Theory** Eduardo Cattani,Fouad El Zein,Phillip A. Griffiths,Lê Dũng Tráng,2014-07-21 This book provides a comprehensive and up to date introduction to Hodge theory one of the central and most vibrant areas of contemporary mathematics from leading specialists on the subject The topics range from the basic topology of algebraic varieties to the study of variations of mixed Hodge structure and the Hodge theory of maps Of particular interest is the study of algebraic cycles including the Hodge and Bloch Beilinson Conjectures Based on lectures delivered at the 2010 Summer School on Hodge Theory at the ICTP in Trieste Italy the book is intended for a broad group of students and researchers The exposition is as accessible as possible and doesn t require a deep background At the same time the book presents some topics at the forefront of current research The book is divided between introductory and advanced lectures The introductory lectures address K hler manifolds variations of Hodge structure mixed Hodge structures the Hodge theory of maps period domains and period mappings algebraic cycles up to and including the Bloch Beilinson conjecture and Chow groups sheaf cohomology and a new treatment of Grothendieck s algebraic de Rham theorem The advanced lectures address a Hodge theoretic perspective on Shimura varieties the spread philosophy in the study of algebraic cycles absolute Hodge classes including a new self contained proof of Deligne s theorem on absolute Hodge cycles and variation of mixed Hodge structures The contributors include Patrick Brosnan James Carlson Eduardo Cattani Fran ois Charles Mark Andrea de Cataldo Fouad El Zein Mark L Green Phillip A Griffiths Matt Kerr L D ng Tr ng Luca Migliorini Jacob P Murre Christian Schnell and Loring W Tu **Commentarii Mathematici Universitatis Sancti Pauli** ,2002 *Information Theory and Stochastics for Multiscale Nonlinear Systems* Andrew Majda,Rafail V. Abramov,Marcus J. Grote,2005 This book introduces mathematicians to the fascinating mathematical interplay between ideas from stochastics and information theory and practical issues in studying complex multiscale nonlinear systems It emphasizes the serendipity between modern applied mathematics and applications where rigorous analysis the development of qualitative and or asymptotic models and numerical modeling all interact to explain complex phenomena After a brief introduction to the emerging issues in multiscale modeling the book has three main chapters The first chapter is an introduction to information theory with novel applications to statistical mechanics predictability and Jupiter s Red Spot for geophysical flows The second chapter discusses new mathematical issues regarding fluctuation dissipation theorems for complex nonlinear systems including information flow various approximations and illustrates applications to various mathematical models The third chapter discusses stochastic modeling of complex nonlinear systems After a general discussion a new elementary model

motivated by issues in climate dynamics is utilized to develop a self contained example of stochastic mode reduction Based on A Majda s Aisenstadt lectures at the University of Montreal the book is appropriate for both pure and applied mathematics graduate students postdocs and faculty as well as interested researchers in other scientific disciplines No background in geophysical flows is required About the authors Andrew Majda is a member of the National Academy of Sciences and has received numerous honors and awards including the National Academy of Science Prize in Applied Mathematics the John von Neumann Prize of the Society of Industrial and Applied Mathematics the Gibbs Prize of the American Mathematical Society and the Medal of the College de France In the past several years at the Courant Institute Majda and a multi disciplinary faculty have created the Center for Atmosphere Ocean Science to promote cross disciplinary research with modern applied mathematics in climate modeling and prediction R V Abramov is a young researcher he received his PhD in 2002 M J Grote received his Ph D under Joseph B Keller at Stanford University in 1995 **Transcendental Aspects of Algebraic Cycles** S. Müller-Stach,C. Peters,2004-04-20 Lecture notes for graduates or researchers wishing to enter this modern field of research

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