

# Hodge Theory

Victor Guillemin

Notes, Spring 1997

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## 1 Definition and properties of $\star$ .

Let  $V$  be an  $n$ -dimensional vector space over  $\mathbf{R}$  and  $B$  a bilinear form on  $V$ .  $B$  induces a bilinear form on  $\wedge^p V$ , also denoted by  $B$  determined by its value on decomposable elements as

$$B(\mu, \nu) := \det(B(u_i, v_j)), \quad \mu = u_1 \wedge \cdots \wedge u_p, \quad \nu = v_1 \wedge \cdots \wedge v_p.$$

Suppose we also have fixed an element  $\Omega \in \wedge^n V$  which identifies  $\wedge^n V$  with  $\mathbf{R}$ . Exterior multiplication then identifies  $\wedge^{n-p} V$  with  $(\wedge^p V)^*$  and  $B$  maps  $\wedge^p V \rightarrow (\wedge^p V)^*$ . We thus get a composite map

$$\star : \wedge^p V \rightarrow \wedge^{n-p} V$$

# Notes On Gauge Theory And Hodge Theory

**Jørgen Ellegaard Andersen, Andrew  
Dancer, Oscar García-Prada**



## Notes On Gauge Theory And Hodge Theory:

Notes on Gauge Theory and Hodge Theory Gheorghe Ionescu, 2001      Lecture Notes on Chern-Simons-Witten Theory  
Sen Hu, E. Witten, 2001 This monograph is based on lectures on topological quantum field theory given in 1989 at Princeton University by E Witten in which he unified several important mathematical works in terms of the Donaldson polynomial Gromov Floer homology and Jones polynomials Witten explained his three dimensional construction of Jones polynomials an elegant construction of a new polynomial invariant in three dimensional space per the author via quantization of Chern Simons gauge theory Hu Princeton U adds missing details and some new developments in the field Annotation copyrighted by Book News Inc Portland OR      Probabilistic Methods in Quantum Field Theory and Quantum Gravity Poul Henrik Damgaard, H. Hüffel, A. Rosenblum, 2012-12-06 From August 21 through August 27 1989 the Nato Advanced Research Workshop Probabilistic Methods in Quantum Field Theory and Quantum Gravity was held at l Institut d Etudes Scientifiques Cargese France This publication is the Proceedings of this workshop The purpose of the workshop was to bring together a group of scientists who have been at the forefront of the development of probabilistic methods in Quantum Field Theory and Quantum Gravity The original thought was to put emphasis on the introduction of stochastic processes in the understanding of Euclidean Quantum Field Theory with also some discussion of recent progress in the field of stochastic numerical methods During the final preparation of the meeting we broadened the scope to include all those Euclidean Quantum Field Theory descriptions that make direct reference to concepts from probability theory and statistical mechanics Several of the main contributions centered around a more rigorous discussion of stochastic processes for the formulation of Euclidean Quantum Field Theory These rather stringent mathematical approaches were contrasted with the more heuristic stochastic quantization scheme developed in 1981 by Parisi and Wu Stochastic quantization its intrinsic BRST structure and stochastic regularization appeared in many disguises and in connection with several different problems throughout the workshop

*Quantum Field Theory III: Gauge Theory* Eberhard Zeidler, 2011-08-17 In this third volume of his modern introduction to quantum field theory Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe gravitative electromagnetic weak interaction and strong interaction Volume III concentrates on the classical aspects of gauge theory describing the four fundamental forces by the curvature of appropriate fiber bundles This must be supplemented by the crucial but elusive quantization procedure The book is arranged in four sections devoted to realizing the universal principle force equals curvature Part I The Euclidean Manifold as a Paradigm Part II Ariadne's Thread in Gauge Theory Part III Einstein's Theory of Special Relativity Part IV Ariadne's Thread in Cohomology For students of mathematics the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum Quantum Field

Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe macrocosmos and in the world of elementary particles microcosmos *p-adic Hodge Theory* Bhargav Bhatt, Martin Olsson, 2020-06-15 This proceedings volume contains articles related to the research presented at the 2017 Simons Symposium on  $p$ -adic Hodge theory This symposium was focused on recent developments in  $p$ -adic Hodge theory especially those concerning integral questions and their connections to notions in algebraic topology This volume features original research articles as well as articles that contain new research and survey some of these recent developments It is the first of three volumes dedicated to  $p$ -adic Hodge theory **An Introduction to Two-Dimensional Quantum Field Theory**

**with (0,2) Supersymmetry** Ilarion V. Melnikov, 2019-02-11 This book introduces two dimensional supersymmetric field theories with emphasis on both linear and non linear sigma models Complex differential geometry in connection with supersymmetry has played a key role in most developments of the last thirty years in quantum field theory and string theory Both structures introduce a great deal of rigidity compared to the more general categories of non supersymmetric theories and real differential geometry allowing for many general conceptual results and detailed quantitative predictions Two dimensional (0,2) supersymmetric quantum field theories provide a natural arena for the fruitful interplay between geometry and quantum field theory These theories play an important role in string theory and provide generalizations still to be explored fully of rich structures such as mirror symmetry They also have applications to non perturbative four dimensional physics for instance as descriptions of surface defects or low energy dynamics of solitonic strings in four dimensional supersymmetric theories The purpose of these lecture notes is to acquaint the reader with these fascinating theories assuming a background in conformal theory quantum field theory and differential geometry at the beginning graduate level In order to investigate the profound relations between structures from complex geometry and field theory the text begins with a thorough examination of the basic structures of (0,2) quantum field theory and conformal field theory Next a simple class of Lagrangian theories the (0,2) Landau Ginzburg models are discussed together with the resulting renormalization group flows dynamics and symmetries After a thorough introduction and examination of (0,2) non linear sigma models the text introduces linear sigma models that in particular provide a unified treatment of non linear sigma models and Landau Ginzburg theories Many exercises along with discussions of relevant mathematical notions and important open problems in the field are included in the text From Hodge Theory to Integrability and TQFT Ron Donagi, Katrin Wendland, 2008 Ideas from quantum field theory and string theory have had an enormous impact on geometry over the last two decades One extremely fruitful source of new mathematical ideas goes back to the works of Cecotti Vafa et al around 1991 on the geometry of topological field theory Their tt geometry tt stands for topological antitopological was motivated by physics but it turned out to unify ideas from such separate branches of mathematics as singularity theory Hodge theory integrable systems matrix models and Hurwitz spaces The interaction among these fields suggested by tt geometry has become a fast moving

and exciting research area This book loosely based on the 2007 Augsburg Germany workshop From tQFT to tt and Integrability is the perfect introduction to the range of mathematical topics relevant to tt geometry It begins with several surveys of the main features of tt geometry Frobenius manifolds twistors and related structures in algebraic and differential geometry each starting from basic definitions and leading to current research The volume moves on to explorations of current foundational issues in Hodge theory higher weight phenomena in twistor theory and non commutative Hodge structures and their relation to mirror symmetry The book concludes with a series of applications to integrable systems and enumerative geometry exploring further extensions and connections to physics With its progression through introductory foundational and exploratory material this book is an indispensable companion for anyone working in the subject or wishing to enter it Publisher's website

**Quantum Field Theory, Supersymmetry, and Enumerative Geometry** Daniel S. Freed, David R. Morrison, Isadore Manuel Singer, 2006 This volume presents three weeks of lectures given at the Summer School on Quantum Field Theory Supersymmetry and Enumerative Geometry With this volume the Park City Mathematics Institute returns to the general topic of the first institute the interplay between quantum field theory and mathematics

**Geometry and Physics** Jørgen Ellegaard Andersen, Andrew Dancer, Oscar García-Prada, 2018 Nigel Hitchin is one of the world's foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics and he has been Savilian Professor of Geometry at Oxford since 1997 Geometry and Physics A Festschrift in honour of Nigel Hitchin contain the proceedings of the conferences held in September 2016 in Aarhus Oxford and Madrid to mark Nigel Hitchin's 70th birthday and to honour his far reaching contributions to geometry and mathematical physics These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas including three Fields Medallists The articles cover a broad range of topics in differential algebraic and symplectic geometry and also in mathematical physics These volumes will be of interest to researchers and graduate students in geometry and mathematical physics

**Quantum Field Theory and Manifold Invariants** Daniel S. Freed, Sergei Gukov, Ciprian Manolescu, Constantin Teleman, Ulrike Tillmann, 2021-12-02 This volume contains lectures from the Graduate Summer School Quantum Field Theory and Manifold Invariants held at Park City Mathematics Institute 2019 The lectures span topics in topology global analysis and physics and they range from introductory to cutting edge Topics treated include mathematical gauge theory anti self dual equations Seiberg Witten equations Higgs bundles classical and categorified knot invariants Khovanov homology Heegaard Floer homology instanton Floer homology invertible topological field theory BPS states and spectral networks This collection presents a rich blend of geometry and topology with some theoretical physics thrown in as well and so provides a snapshot of a vibrant and fast moving field Graduate students with basic preparation in topology and geometry can use this volume to learn advanced background material before being brought to the frontiers of current developments Seasoned researchers will also benefit from the systematic presentation of exciting new advances by leaders in

their fields     *New Paths Towards Quantum Gravity* Bernhelm Booß-Bavnbek, Giampiero Esposito, Matthias Lesch, 2010-07-23 Aside from the obvious statement that it should be a theory capable of unifying general relativity and quantum field theory not much is known about the true nature of quantum gravity New ideas and there are many of them for this is an exciting field of research often diverge to a degree where it seems impossible to decide in which of the many possible directions the ongoing developments should be further sustained The division of the book in two overlapping parts reflects the duality between the physical vision and the mathematical construction The former is represented by tutorial reviews on non commutative geometry on space time discretization and renormalization and on gauge field path integrals The latter one by lectures on cohomology on stochastic geometry and on mathematical tools for the effective action in quantum gravity The book will benefit everyone working or entering the field of quantum gravity research

**Mathematical Reviews**, 2004     **Advances in Moduli Theory** Kenji Ueno, Yūji Shimizu, 2002 The word moduli in the sense of this book first appeared in the epoch making paper of B Riemann *Theorie der Abel'schen Funktionen* published in 1857 Riemann defined a Riemann surface of an algebraic function field as a branched covering of a one dimensional complex projective space and found out that Riemann surfaces have parameters This work gave birth to the theory of moduli However the viewpoint regarding a Riemann surface as an algebraic curve became the mainstream and the moduli meant the parameters for the figures graphs defined by equations In 1913 H Weyl defined a Riemann surface as a complex manifold of dimension one Moreover Teichmüller's theory of quasiconformal mappings and Teichmüller spaces made a start for new development of the theory of moduli making possible a complex analytic approach toward the theory of moduli of Riemann surfaces This theory was then investigated and made complete by Ahlfors Bers Rauch and others However the theory of Teichmüller spaces utilized the special nature of complex dimension one and it was difficult to generalize it to an arbitrary dimension in a direct way It was Kodaira Spencer's deformation theory of complex manifolds that allowed one to study arbitrary dimensional complex manifolds Initial motivation in Kodaira Spencer's discussion was the need to clarify what one should mean by number of moduli Their results together with further work by Kuranishi provided this notion with intrinsic meaning This book begins by presenting the Kodaira Spencer theory in its original naive form in Chapter 1 and introduces readers to moduli theory from the viewpoint of complex analytic geometry Chapter 2 briefly outlines the theory of period mapping and Jacobian variety for compact Riemann surfaces with the Torelli theorem as a goal The theory of period mappings for compact Riemann surfaces can be generalized to the theory of period mappings in terms of Hodge structures for compact Kähler manifolds In Chapter 3 the authors state the theory of Hodge structures focusing briefly on period mappings Chapter 4 explains conformal field theory as an application of moduli theory This is the English translation of a book originally published in Japanese Other books by Kenji Ueno published in this AMS series *Translations of Mathematical Monographs* include *An Introduction to Algebraic Geometry* Volume 166 *Algebraic Geometry 1 From Algebraic Varieties to*

Schemes Volume 185 and Algebraic Geometry 2 Sheaves and Cohomology Volume 197      **Geometry and Physics: Volume**

**2** Jørgen Ellegaard Andersen, Andrew Dancer, Oscar García-Prada, 2018-10-18 Nigel Hitchin is one of the world's foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics and he has been Savilian Professor of Geometry at Oxford since 1997 Geometry and Physics A Festschrift in honour of Nigel Hitchin contain the proceedings of the conferences held in September 2016 in Aarhus Oxford and Madrid to mark Nigel Hitchin's 70th birthday and to honour his far reaching contributions to geometry and mathematical physics These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas including three Fields Medallists The articles cover a broad range of topics in differential algebraic and symplectic geometry and also in mathematical physics These volumes will be of interest to researchers and graduate students in geometry and mathematical physics

**Moduli of Curves and Abelian Varieties** Carel Faber, Eduard Looijenga, 2012-12-06 The present volume with contributions of R Dijkgraaf C Faber G van der Geer R Rain E Looijenga and F Oort originates from the Dutch Intercity Seminar on Moduli year 1995-96 Some of the articles here were discussed in preliminary form in the seminar others are completely new Two introductory papers on moduli of abelian varieties and on moduli of curves accompany the articles Topics include a stratification of a moduli space of abelian varieties in positive characteristic and the calculation of the classes of the strata tautological classes for moduli of abelian varieties as well as for moduli of curves correspondences between moduli spaces of curves locally symmetric families of curves and jacobians and the role of symmetric product spaces in quantum field theory string theory and matrix theory This Intercity Seminar is part of the long term project Algebraic curves and Riemann surfaces geometry arithmetic and applications sponsored by the Netherlands Organization for Scientific Research NWO that has been running since 1994 Its ancestry can be traced back to joint activities in the seventies if not earlier which as of 1980 had evolved into active biweekly research seminars These have been a focal point of Dutch algebraic geometry and singularity theory since We are grateful to NWO for its support for the project C F thanks the Max Planck Institut für Mathematik Bonn for support during the final stages of the preparation of this volume      XVIth

International Congress on Mathematical Physics Pavel Exner, 2010 The International Congress on Mathematical Physics is the flagship conference in this exciting field Convening every three years it gives a survey on the progress achieved in all branches of mathematical physics It also provides a superb platform to discuss challenges and new ideas The present volume collects material from the XVIth ICMP which was held in Prague August 2009 and features most of the plenary lectures and invited lectures in topical sessions as well as information on other parts of the congress program This volume provides a broad coverage of the field of mathematical physics from dominantly mathematical subjects to particle physics condensed matter and application of mathematical physics methods in various areas such as astrophysics and ecology amongst others

**Geometric Analysis and Applications to Quantum Field Theory** Peter Bouwknegt, Siye Wu, 2012-12-06 In the last

decade there has been an extraordinary confluence of ideas in mathematics and theoretical physics brought about by pioneering discoveries in geometry and analysis. The various chapters in this volume treating the interface of geometric analysis and mathematical physics represent current research interests. No suitable succinct account of the material is available elsewhere. Key topics include: A self-contained derivation of the partition function of Chern-Simons gauge theory in the semiclassical approximation; D. H. Adams: Algebraic and geometric aspects of the Knizhnik-Zamolodchikov equations in conformal field theory; P. Bouwknegt: Application of the representation theory of loop groups to simple models in quantum field theory and to certain integrable systems; A. L. Carey and E. Langmann: A study of variational methods in Hermitian geometry from the viewpoint of the critical points of action functionals together with physical backgrounds; A. Harris: A review of monopoles in nonabelian gauge theories; M. K. Murray: Exciting developments in quantum cohomology; Y. Ruan: The physics origin of Seiberg-Witten equations in 4-manifold theory; S. Wu: Graduate students, mathematicians and mathematical physicists in the above-mentioned areas will benefit from the user-friendly introductory style of each chapter as well as the comprehensive bibliographies provided for each topic. Prerequisite knowledge is minimal since sufficient background material motivates each chapter.

*Lectures on the Infrared Structure of Gravity and Gauge Theory* Andrew Strominger, 2018-03-06. A short graduate-level synthesis of recent developments in theoretical physics from a pioneer in the field. *Lectures on the Infrared Structure of Gravity and Gauge Theory* presents an accessible graduate-level synthesis of a frontier research area in theoretical physics. Based on a popular Harvard University course taught by the author, this book gives a concise introduction to recent discoveries concerning the structure of gravity and gauge theory at very long distances. These discoveries unite three disparate but well-developed subjects in physics. The first subject is the soft theorems which were found by particle physicists in the 1950s to control the behavior of low-energy photons and are essential for all collider predictions. The second subject is asymptotic symmetries found by general relativists in the 1960s to provide a surprising infinite number of exact relations between distinct physical phenomena. The third subject is the memory effect, the measurement of which is sought in upcoming gravitational wave observations. An exploration of the physical and mathematical equivalence of these three subjects has provided a powerful new perspective on old results and led to a plethora of new results involving symmetries of QED gluon scattering amplitudes, flat space holography in quantum gravity, black hole information and beyond. Uniquely connective and cutting-edge, *Lectures on the Infrared Structure of Gravity and Gauge Theory* takes students and scholars to the forefront of new developments in the discipline. Materials are presented in a lecture notes style with problem sets included. Concise and accessible pedagogical approach. Topics include soft theorems, the memory effect, asymptotic symmetries with applications to QED, Yang-Mills theory, quantum gravity and black holes.

*Seiberg-Witten Gauge Theory* Matilde Marcolli, 1999-12-15      **String Theory: From Gauge Interactions to Cosmology** (France) (2004 NATO Advanced Study Institute on String Theory: From Gauge Interactions to Cosmology)



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