

Progress in Mathematics

Michèle Audin

Torus Actions on Symplectic Manifolds

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Torus Actions On Symplectic Manifolds Progress In Mathematics

Michèle Audin



Torus Actions On Symplectic Manifolds Progress In Mathematics:

The Topology of Torus Actions on Symplectic Manifolds Michèle Audin, 2012-12-06 The material and references in this extended second edition of The Topology of Torus Actions on Symplectic Manifolds published as Volume 93 in this series in 1991 have been updated Symplectic manifolds and torus actions are investigated with numerous examples of torus actions for instance on some moduli spaces Although the book is still centered on convexity results it contains much more material in particular lots of new examples and exercises

Torus Actions On Symplectic Manifolds Michèle Audin, 2004-09-27 The material and references in this extended second edition of The Topology of Torus Actions on Symplectic Manifolds published as Volume 93 in this series in 1991 have been updated Symplectic manifolds and torus actions are investigated with numerous examples of torus actions for instance on some moduli spaces Although the book is still centered on convexity results it contains much more material in particular lots of new examples and exercises

Torus Actions on Symplectic Manifolds Michèle Audin, 2012-12-06 How I have re written this book The book the reader has in hand was supposed to be a new edition of 14 I have hesitated quite a long time before deciding to do the re writing work the first edition has been sold out for a few years There was absolutely no question of just correcting numerous misprints and a few mathematical errors When I wrote the first edition in 1989 the convexity and Duistermaat Heckman theorems together with the irruption of toric varieties on the scene of symplectic geometry due to Delzant around which the book was organized were still rather recent less than ten years I myself was rather happy with a small contribution I had made to the subject I was giving a post graduate course on all that and well these were lecture notes just lecture notes By chance the book turned out to be rather popular during the years since then I had the opportunity to meet quite a few people 1 who kindly pretended to have learnt the subject in this book However the older book does not satisfy at all the idea I have now of what a good book should be So that this new edition is indeed another book

Symplectic Actions of $2\mathbb{T}$ -Tori on $4\mathbb{T}$ -Manifolds Alvaro Pelayo, 2010-02-22 In this paper the author classifies symplectic actions of $2\mathbb{T}$ on compact connected symplectic $4\mathbb{T}$ manifolds up to equivariant symplectomorphisms This extends results of Atiyah Guillemin Sternberg Delzant and Benoist The classification is in terms of a collection of invariants of the topology of the manifold of the torus action and of the symplectic form The author constructs explicit models of such symplectic manifolds with torus actions defined in terms of these invariants

Special Metrics and Group Actions in Geometry Simon G. Chiossi, Anna Fino, Emilio Musso, Fabio Podestà, Luigi Vezzoni, 2017-11-27 The volume is a follow up to the INdAM meeting Special metrics and quaternionic geometry held in Rome in November 2015 It offers a panoramic view of a selection of cutting edge topics in differential geometry including $4\mathbb{T}$ manifolds quaternionic and octonionic geometry twistor spaces harmonic maps spinors complex and conformal geometry homogeneous spaces and nilmanifolds special geometries in dimensions $5, 8$ gauge theory symplectic and toric manifolds exceptional holonomy and integrable systems The workshop was held in honor of Simon Salamon a leading international scholar at the forefront of

academic research who has made significant contributions to all these subjects The articles published here represent a compelling testimony to Salamon s profound and longstanding impact on the mathematical community Target readership includes graduate students and researchers working in Riemannian and complex geometry Lie theory and mathematical physics Centralizers of Hamiltonian Circle Actions on Rational Ruled Surfaces Pranav V. Chakravarthy,Martin Pinsonnault,2025-05-16 View the abstract *Geometry and Physics* H. Pedersen,2021-01-07 Based on the proceedings of the Special Session on Geometry and Physics held over a six month period at the University of Aarhus Denmark and on articles from the Summer school held at Odense University Denmark Offers new contributions on a host of topics that involve physics geometry and topology Written by more than 50 leading international experts **Toric Varieties** David A. Cox,John B. Little,Henry K. Schenck,2024-06-25 Toric varieties form a beautiful and accessible part of modern algebraic geometry This book covers the standard topics in toric geometry a novel feature is that each of the first nine chapters contains an introductory section on the necessary background material in algebraic geometry Other topics covered include quotient constructions vanishing theorems equivariant cohomology GIT quotients the secondary fan and the minimal model program for toric varieties The subject lends itself to rich examples reflected in the 134 illustrations included in the text The book also explores connections with commutative algebra and polyhedral geometry treating both polytopes and their unbounded cousins polyhedra There are appendices on the history of toric varieties and the computational tools available to investigate nontrivial examples in toric geometry Readers of this book should be familiar with the material covered in basic graduate courses in algebra and topology and to a somewhat lesser degree complex analysis In addition the authors assume that the reader has had some previous experience with algebraic geometry at an advanced undergraduate level The book will be a useful reference for graduate students and researchers who are interested in algebraic geometry polyhedral geometry and toric varieties **Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures** Rajendra Bhatia,Arup Pal,G Rangarajan,V Srinivas,M Vanninathan,2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress , *Diophantine Approximation* Robert F. Tichy,Hans Peter Schlickewei,Klaus Schmidt,2008-07-10 This volume contains 22 research and survey papers on recent developments in the field of diophantine approximation The first article by Hans Peter Schlickewei is devoted to the scientific work of Wolfgang Schmidt Further contributions deal with the subspace theorem and its applications to diophantine equations and to the study of linear recurring sequences The articles are either in the spirit of more classical diophantine analysis or of geometric or combinatorial flavor In particular estimates for the number of solutions of diophantine equations

as well as results concerning congruences and polynomials are established Furthermore the volume contains transcendence results for special functions and contributions to metric diophantine approximation and to discrepancy theory The articles are based on lectures given at a conference at the Erwin Schrödinger Institute in Vienna in 2003 in which many leading experts in the field of diophantine approximation participated The editors are very grateful to the Erwin Schrödinger Institute and to the FWF Austrian Science Fund for the financial support and they express their particular thanks to Springer Verlag for the excellent cooperation Robert E Tichy Diophantine Approximation H E Schlickewei et al Editors 9 Springer Verlag 2008 THE MATHEMATICAL WORK OF WOLFGANG SCHMIDT Hans Peter Schlickewei Mathematik Informatik und Philipps Universität Hans Meerwein Strasse Marburg 35032 Marburg Germany k Introduction Wolfgang Schmidt s mathematical activities started more than fifty years ago in 1955 In the meantime he has written more than 180 papers many of them containing spectacular results and breakthroughs in different areas of number theory

Mod Two Homology and Cohomology Jean-Claude Hausmann, 2015-01-08 Cohomology and homology modulo 2 helps the reader grasp more readily the basics of a major tool in algebraic topology Compared to a more general approach to co homology this refreshing approach has many pedagogical advantages 1 It leads more quickly to the essentials of the subject 2 An absence of signs and orientation considerations simplifies the theory 3 Computations and advanced applications can be presented at an earlier stage 4 Simple geometrical interpretations of co chains Mod 2 co homology was developed in the first quarter of the twentieth century as an alternative to integral homology before both became particular cases of co homology with arbitrary coefficients The first chapters of this book may serve as a basis for a graduate level introductory course to co homology Simplicial and singular mod 2 co homology are introduced with their products and Steenrod squares as well as equivariant cohomology Classical applications include Brouwer s fixed point theorem Poincaré duality Borsuk Ulam theorem Hopf invariant Smith theory Kervaire invariant etc The cohomology of flag manifolds is treated in detail without spectral sequences including the relationship between Stiefel Whitney classes and Schubert calculus More recent developments are also covered including topological complexity face spaces equivariant Morse theory conjugation spaces polygon spaces amongst others Each chapter ends with exercises with some hints and answers at the end of the book

Toric Topology Megumi Harada, 2008 Toric topology is the study of algebraic differential symplectic geometric combinatorial and homotopy theoretic aspects of a particular class of torus actions whose quotients are highly structured The combinatorial properties of this quotient and the equivariant topology of the original manifold interact in a rich variety of ways thus illuminating subtle aspects of both the combinatorics and the equivariant topology Many of the motivations and guiding principles of the field are provided by though not limited to the theory of toric varieties in algebraic geometry as well as that of symplectic toric manifolds in symplectic geometry This volume is the proceedings of the International Conference on Toric Topology held in Osaka in May June 2006 It contains about 25 research and survey articles written by conference speakers covering many

different aspects of and approaches to torus actions such as those mentioned above. Some of the manuscripts are survey articles intended to give a broad overview of an aspect of the subject; all manuscripts consciously aim to be accessible to a broad reading audience of students and researchers interested in the interaction of the subjects involved. We hope that this volume serves as an enticing invitation to this emerging field.

Introduction to Mechanics and Symmetry Jerrold E. Marsden, Tudor S. Ratiu, 2013-03-19 Symmetry has always played an important role in mechanics from fundamental formulations of basic principles to concrete applications. The theme of the book is to develop the basic theory and applications of mechanics with an emphasis on the role of symmetry. In recent times the interest in mechanics and in symmetry techniques in particular has accelerated because of developments in dynamical systems, the use of geometric methods and new applications to integrable and chaotic systems, control systems, stability and bifurcation, and the study of specific rigid fluid plasma and elastic systems. *Introduction to Mechanics and Symmetry* lays the basic foundation for these topics and includes numerous specific applications making it beneficial to physicists and engineers. This text has specific examples and applications showing how the theory works and up to date techniques all of which makes it accessible to a wide variety of readers especially senior undergraduate and graduate students in mathematics, physics and engineering. For this second edition the text has been rewritten and updated for clarity throughout with a major revamping and expansion of the exercises. Internet supplements containing additional material are also available on line.

Topics in Algebraic Geometry and Geometric Modeling Ron Goldman, Rimvydas Krasauskas, 2003 Algebraic geometry and geometric modeling both deal with curves and surfaces generated by polynomial equations. Algebraic geometry investigates the theoretical properties of polynomial curves and surfaces; geometric modeling uses polynomial, piecewise polynomial and rational curves and surfaces to build computer models of mechanical components and assemblies for industrial design and manufacture. The NSF sponsored the four day Vilnius Workshop on Algebraic Geometry and Geometric Modeling which brought together some of the top experts in the two research communities to examine a wide range of topics of interest to both fields. This volume is an outgrowth of that workshop. Included are surveys, tutorials and research papers. In addition the editors have included a translation of Minding's 1841 paper "On the determination of the degree of an equation obtained by elimination" which foreshadows the modern application of mixed volumes in algebraic geometry. The volume is suitable for mathematicians, computer scientists and engineers interested in applications of algebraic geometry to geometric modeling.

Convexity Properties of Hamiltonian Group Actions Victor Guillemin, Reyner 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 subgroup. 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 Mathématiques. Lectures on Symplectic Geometry Ana Cannas da Silva, 2004-10-27. The goal of

these notes is to provide a fast introduction to symplectic geometry for graduate students with some knowledge of differential geometry, de Rham theory and classical Lie groups. This text addresses symplectomorphisms, local forms, contact manifolds, compatible almost complex structures, Kähler manifolds, hamiltonian mechanics, moment maps, symplectic reduction and symplectic toric manifolds. It contains guided problems called homework designed to complement the exposition or extend the reader's understanding. There are by now excellent references on symplectic geometry, a subset of which is in the bibliography of this book. However the most efficient introduction to a subject is often a short elementary treatment and these notes attempt to serve that purpose. This text provides a taste of areas of current research and will prepare the reader to explore recent papers and extensive books on symplectic geometry where the pace is much faster. For this reprint numerous corrections and clarifications have been made and the layout has been improved. **Modern**

Approaches To Differential Geometry And Its Related Fields - Proceedings Of The 7th International Colloquium On Differential Geometry And Its Related Fields Yusuke Sakane, Toshiaki Adachi, Hideya Hashimoto, 2025-01-24. This

volume consists of several papers written by the main participants of the 7th International Colloquium on Differential Geometry and its Related Fields ICDG2023. Readers will find some papers that cover geometric structures on manifolds such as quaternionic structures, Kähler structures, Einstein structures, contact structures and so on as well as other papers that deal with probability theory and discrete mathematics. In this volume the authors present their recent research in differential geometry and related fields offering a comprehensive overview for researchers not only within differential geometry but also across various areas of mathematics and theoretical physics. They aim for this volume to serve as a valuable guide for young scientists beginning their studies and research careers in the related fields. Together with previous proceedings readers will gain insight into the progress of research on geometric structures on Riemannian manifolds. **Fields, Strings And**

Duality (TASI 1996) Brian Greene, Costas Efthimiou, 1997-08-01. The past year has witnessed truly remarkable developments in our understanding of string theory. Fields, Strings and Duality TASI 96 is an invaluable collection of review papers on the subject contributed by the most prominent researchers in the field. This volume is a scientific treasure for graduate students, researchers and all others who are interested in the progress of theoretical physics. **Algebraic Integrability, Painlevé**

Geometry and Lie Algebras Mark Adler, Pierre van Moerbeke, Pol Vanhaecke, 2013-03-14 This Ergebnisse volume is aimed at a wide readership of mathematicians and physicists graduate students and professionals The main thrust of the book is to show how algebraic geometry Lie theory and Painlevé analysis can be used to explicitly solve integrable differential equations and construct the algebraic tori on which they linearize at the same time it is for the student a playing ground to applying algebraic geometry and Lie theory The book is meant to be reasonably self contained and presents numerous examples The latter appear throughout the text to illustrate the ideas and make up the core of the last part of the book The first part of the book contains the basic tools from Lie groups algebraic and differential geometry to understand the main topic

Decoding **Torus Actions On Symplectic Manifolds Progress In Mathematics**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Torus Actions On Symplectic Manifolds Progress In Mathematics**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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