

Volume 21



CRM MONOGRAPH SERIES

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Quantization, Classical and Quantum Field Theory and Theta Functions

Andrei Tyurin



American Mathematical Society

Quantization Classical And Quantum Field Theory And Theta Functions

**Nicolas Bergeron, Pierre
Charollois, Luis E. Garcia**



Quantization Classical And Quantum Field Theory And Theta Functions:

Quantization, Classical and Quantum Field Theory and Theta Functions Andrej Tyurin, 2003 This book is written by a well known expert in classical algebraic geometry Tyurin's research was specifically in explicit computations to vector bundles on algebraic varieties This is the only available monograph written from his unique viewpoint Ordinary abelian theta functions describe properties of moduli spaces of one dimensional vector bundles on algebraic curves Non abelian theta functions which are the main topic of this book play a similar role in the study of higher dimensional vector bundles The book presents various aspects of the theory of non abelian theta functions and the moduli spaces of vector bundles including their applications to problems of quantization and to classical and quantum conformal field theories The book is an important source of information for specialists in algebraic geometry and its applications to mathematical aspects of quantum field theory

The Geometry of Riemann Surfaces and Abelian Varieties José María Muñoz Porras, 2006 Most of the papers in this book deal with the theory of Riemann surfaces moduli problems automorphisms etc abelian varieties theta functions and modular forms Some of the papers contain surveys on the recent results in the topics of current interest to mathematicians whereas others contain new research results

A Mathematical Introduction to Conformal Field Theory Martin Schottenloher, 2008-09-11 The first part of this book gives a self contained and mathematically rigorous exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions The second part surveys some more advanced topics of conformal field theory

Theta Functions and Knots Razvan Gelca, 2014 This book presents the relationship between classical theta functions and knots It is based on a novel idea of Razvan Gelca and Alejandro Uribe which converts Weil's representation of the Heisenberg group on theta functions to a knot theoretical framework by giving a topological interpretation to a certain induced representation It also explains how the discrete Fourier transform can be related to 3 and 4 dimensional topology Theta Functions and Knots can be read in two perspectives People with an interest in theta functions or knot theory can learn how the two are related Those interested in Chern-OCoSims theory find here an introduction using the simplest case that of abelian Chern-OCoSims theory Moreover the construction of abelian Chern-OCoSims theory is based entirely on quantum mechanics and not on quantum field theory as it is usually done Both the theory of theta functions and low dimensional topology are presented in detail in order to underline how deep the connection between these two fundamental mathematical subjects is Hence the book is a self contained unified presentation It is suitable for an advanced graduate course as well as for self study

Contents Some Historical Facts A Quantum Mechanical Prototype Surfaces and Curves The Theta Functions Associated to a Riemann Surface From Theta Functions to Knots Some Results About 3 and 4 Dimensional Manifolds The Discrete Fourier Transform and Topological Quantum Field Theory Theta Functions and Quantum Groups An Epilogue OCo Abelian Chern-OCoSims Theory Readership Graduate students and young researchers with an interest in complex analysis mathematical physics algebra geometry and low

dimensional topology 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 Knots, Low-Dimensional Topology and Applications Colin C. Adams,Cameron McA. Gordon,Vaughan F.R. Jones,Louis H. Kauffman,Sofia Lambropoulou,Kenneth C. Millett,Jozef H. Przytycki,Renzo Ricca,Radmila Szazdanovic,2019-06-26 This proceedings volume presents a diverse collection of high quality state of the art research and survey articles written by top experts in low dimensional topology and its applications The focal topics include the wide range of historical and contemporary invariants of knots and links and related topics such as three and four dimensional manifolds braids virtual knot theory quantum invariants braids skein modules and knot algebras link homology quandles and their homology hyperbolic knots and geometric structures of three dimensional manifolds the mechanism of topological surgery in physical processes knots in Nature in the sense of physical knots with applications to polymers DNA enzyme mechanisms and protein structure and function The contents is based on contributions presented at the International Conference on Knots Low Dimensional Topology and Applications Knots in Hellas 2016 which was held at the International Olympic Academy in Greece in July 2016 The goal of the international conference was to promote the exchange of methods and ideas across disciplines and generations from graduate students to senior researchers and to explore fundamental research problems in the broad fields of knot theory and low dimensional topology This book will benefit all researchers who wish to take their research in new directions to learn about new tools and methods and to discover relevant and recent literature for future study *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

Current Algebras on Riemann Surfaces Oleg K. Sheinman, 2012-10-01 This monograph is an introduction into a new and fast developing field on the crossroads of infinite dimensional Lie algebra theory and contemporary mathematical physics It contains a self consistent presentation of the theory of Krichever Novikov algebras Lax operator algebras their interaction representation theory relations to moduli spaces of Riemann surfaces and holomorphic vector bundles on them to Lax integrable systems and conformal field theory For beginners the book provides a short way to join in the investigations in these fields For experts it sums up the recent advances in the theory of almost graded infinite dimensional Lie algebras and their applications The book may serve as a base for semester lecture courses on finite dimensional integrable systems conformal field theory almost graded Lie algebras Majority of results are presented for the first time in the form of monograph

The Geometric and Arithmetic Volume of Shimura Varieties of Orthogonal Type Fritz Hörmann, 2014-11-05 This book outlines a functorial theory of integral models of mixed Shimura varieties and of their toroidal compactifications for odd primes of good reduction This is the integral version developed in the author's thesis of the theory invented by Deligne and Pink in the rational case In addition the author develops a theory of arithmetic Chern classes of integral automorphic vector bundles with singular metrics using the work of Burgos Kramer and Kühn The main application is calculating arithmetic volumes or heights of Shimura varieties of orthogonal type using Borcherds famous modular forms with their striking product formula an idea due to Bruinier Burgos Kühn and Kudla This should be seen as an

Arakelov analogue of the classical calculation of volumes of orthogonal locally symmetric spaces by Siegel and Weil In the latter theory the volumes are related to special values of normalized Siegel Eisenstein series In this book it is proved that the Arakelov analogues are related to special derivatives of such Eisenstein series This result gives substantial evidence in the direction of Kudla's conjectures in arbitrary dimensions The validity of the full set of conjectures of Kudla in turn would give a conceptual proof and far reaching generalizations of the work of Gross and Zagier on the Birch and Swinnerton Dyer conjecture Titles in this series are co published with the Centre de Recherches Mathématiques

Classification and Identification of Lie Algebras Libor Šnobl, 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

Continuous Symmetries and Integrability of Discrete Equations Decio Levi, Pavel Winternitz, Ravil I. Yamilov, 2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries The book contains three chapters and five appendices The first chapter is an introduction to the general ideas about symmetries lattices differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The appendices provide details which may help the readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are

interested in the study of symmetries and integrability of difference equations

Integrable Systems and Algebraic Geometry Ron Donagi, Tony Shaska, 2020-03-02 A collection of articles discussing integrable systems and algebraic geometry from leading researchers in the field

Quaternion Orders, Quadratic Forms, and Shimura Curves Montserrat Alsina, Pilar Bayer i Isant, 2004 Shimura curves are a far reaching generalization of the classical modular curves They lie at the crossroads of many areas including complex analysis hyperbolic geometry algebraic geometry algebra and arithmetic This monograph presents Shimura curves from a theoretical and algorithmic perspective

Quaternion Orders, Quadratic Forms, and Shimura Curves Montserrat Alsina and Pilar Bayer, Shimura curves are a far reaching generalization of the classical modular curves They lie at the crossroads of many areas including complex analysis hyperbolic geometry algebraic geometry algebra and arithmetic This monograph presents Shimura curves from a theoretical and algorithmic perspective The main topics are Shimura curves defined over the rational number field the construction of their fundamental domains and the determination of their complex multiplication points The study of complex multiplication points in Shimura curves leads to the study of families of binary quadratic forms with algebraic coefficients and to their classification by arithmetic Fuchsian groups In this regard the authors develop a theory full of new possibilities that parallels Gauss theory on the classification of binary quadratic forms with integral coefficients by the action of the modular group This is one of the few available books explaining the theory of Shimura curves at the graduate student level Each topic covered in the book begins with a theoretical discussion followed by carefully worked out examples preparing the way for further research Titles in this series are co published with the Centre de Recherches Math matiques

Low-Dimensional Topology and Quantum Field Theory Hugh Osborn, 2013-11-11 The motivations goals and general culture of theoretical physics and mathematics are different Most practitioners of either discipline have no necessity for most of the time to keep abreast of the latest developments in the other However on occasion newly developed mathematical concepts become relevant in theoretical physics and the less rigorous theoretical physics framework may prove valuable in understanding and suggesting new theorems and approaches in pure mathematics Such interdisciplinary successes invariably cause much rejoicing as over a prodigal son returned In recent years the framework provided by quantum field theory and functional integrals developed over half a century in theoretical physics have proved a fertile soil for developments in low dimensional topology and especially knot theory Given this background it was particularly pleasing that NATO was able to generously support an Advanced Research Workshop to be held in Cambridge England from 6th to 12th September 1992 with the title Low Dimensional Topology and Quantum Field Theory Although independently organised this overlapped as far as some speakers were concerned with a longer term programme with the same title organised by Professor M Green Professor E Corrigan and Dr R Lickorish The contents of this proceedings of the workshop demonstrate the breadth of topics now of interest on the interface between theoretical physics and mathematics as well as the sophistication of the mathematical tools required in

current theoretical physics More Explorations in Complex Functions Richard Beals, Roderick S.C. Wong, 2023-07-01 More Explorations in Complex Functions is something of a sequel to GTM 287 Explorations in Complex Functions Both texts introduce a variety of topics from core material in the mainstream of complex analysis to tools that are widely used in other areas of mathematics and applications but there is minimal overlap between the two books The intended readership is the same namely graduate students and researchers in complex analysis independent readers seminar attendees or instructors for a second course in complex analysis Instructors will appreciate the many options for constructing a second course that builds on a standard first course in complex analysis Exercises complement the results throughout There is more material in this present text than one could expect to cover in a year's course in complex analysis A mapping of dependence relations among chapters enables instructors and independent readers a choice of pathway to reading the text Chapters 2 4 5 7 and 8 contain the function theory background for some stochastic equations of current interest such as SLE The text begins with two introductory chapters to be used as a resource Chapters 3 and 4 are stand alone introductions to complex dynamics and to univalent function theory including de Brange's theorem respectively Chapters 5 7 may be treated as a unit that leads from harmonic functions to covering surfaces to the uniformization theorem and Fuchsian groups Chapter 8 is a stand alone treatment of quasiconformal mapping that paves the way for Chapter 9 an introduction to Teichmüller theory The final chapters 10 14 are largely stand alone introductions to topics of both theoretical and applied interest the Bergman kernel theta functions and Jacobi inversion Pad approximants and continued fractions the Riemann Hilbert problem and integral equations and Darboux's method for computing asymptotics **Integrable Systems and Algebraic Geometry: Volume 2**

Ron Donagi, Tony Shaska, 2020-04-02 Created as a celebration of mathematical pioneer Emma Previato this comprehensive book highlights the connections between algebraic geometry and integrable systems differential equations mathematical physics and many other areas The authors many of whom have been at the forefront of research into these topics for the last decades have all been influenced by Previato's research as her collaborators students or colleagues The diverse articles in the book demonstrate the wide scope of Previato's work and the inclusion of several survey and introductory articles makes the text accessible to graduate students and non experts as well as researchers The articles in this second volume discuss areas related to algebraic geometry emphasizing the connections of this central subject to integrable systems arithmetic geometry Riemann surfaces coding theory and lattice theory Cocycles de groupe pour GL_n et arrangements d'hyperplans Nicolas Bergeron, Pierre Charollois, Luis E. Garcia, 2023-10-16 Ce livre constitue un exposé détaillé de la série de cours donnés en 2020 par le Prof Nicolas Bergeron titulaire de la Chaire Aisenstadt au CRM de Montréal L'objet de ce texte est une ample généralisation d'une famille d'identités classiques notamment la formule d'addition de la fonction cotangente ou celle des séries d'Eisenstein Le livre relie ces identités à la cohomologie de certains sous-groupes arithmétiques du groupe linéaire général Il rend explicite ces relations au moyen de la théorie des symboles modulaires de rang supérieur d

voilant finalement un lien concret entre des objets de nature topologique et algébrique This book provides a detailed exposition of the material presented in a series of lectures given in 2020 by Prof Nicolas Bergeron while he held the Aisenstadt Chair at the CRM in Montréal The topic is a broad generalization of certain classical identities such as the addition formulas for the cotangent function and for Eisenstein series The book relates these identities to the cohomology of arithmetic subgroups of the general linear group It shows that the relations can be made explicit using the theory of higher rank modular symbols ultimately unveiling a concrete link between topological and algebraic objects I think that the text *Cocycles de groupe pour GL_n et arrangements d'hyperplans* is terrific I like how it begins in a leisurely enticing way with an elementary example that neatly gets to the topic The construction of these meromorphic function valued modular symbols are fundamental objects and play and will continue to play an important role Barry Mazur Harvard University

Moduli Spaces and Arithmetic Dynamics Joseph H. Silverman, *Elliptic Boundary Value Problems with Fractional Regularity Data* Alex Amenta, Pascal Auscher, 2018-04-03 A co publication of the AMS and Centre de Recherches Mathématiques In this monograph the authors study the well posedness of boundary value problems of Dirichlet and Neumann type for elliptic systems on the upper half space with coefficients independent of the transversal variable and with boundary data in fractional Hardy Sobolev and Besov spaces The authors use the so called first order approach which uses minimal assumptions on the coefficients and thus allows for complex coefficients and for systems of equations This self contained exposition of the first order approach offers new results with detailed proofs in a clear and accessible way and will become a valuable reference for graduate students and researchers working in partial differential equations and harmonic analysis

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