



# Topics In Lowdimensional Topology

**Yukio Matsumoto, Shigeyuki Morita**



## **Topics In Lowdimensional Topology:**

Topics In Low Dimensional Topology: In Honor Of Steve Armentrout - Proceedings Of The Conference On Low-dimensional Topology Augustin Banyaga,H Movahedi-lankarani,Robert Wells,1999-10-15 Recent success with the four dimensional Poincar conjecture has revived interest in low dimensional topology especially the three dimensional Poincar conjecture and other aspects of the problems of classifying three dimensional manifolds These problems have a driving force and have generated a great body of research as well as insight The main topics treated in this book include a paper by V Poenaru on the Poincar conjecture and its ramifications giving an insight into the herculean work of the author on the subject Steve Armentrout s paper on Bing s dogbone space belongs to the topics in three dimensional topology motivated by the Poincar conjecture S Singh gives a nice synthesis of Armentrout s work Also included in the volume are shorter original papers dealing with somewhat different aspects of geometry and dedicated to Armentrout by his colleagues Augustin Banyaga and Jean Pierre Ezin David Hurtubise Hossein Movahedi Lankarani and Robert Wells Topics in Low-dimensional Topology Augustin Banyaga,Hossein Movahedi-Lankarani,Robert Wells,1999 Recent success with the four dimensional Poincare conjecture has revived interest in low dimensional topology especially the three dimensional Poincare conjecture and other aspects of the problems of classifying three dimensional manifolds These problems have a driving force and have generated a great body of research as well as insight The main topics treated in this book include a paper by V Poenaru on the Poincare conjecture and its ramifications giving an insight into the herculean work of the author on the subject Steve Armentrout s paper on Bing s dogbone space belongs to the topics in three dimensional topology motivated by the Poincare conjecture S Singh gives a nice synthesis of Armentrout s work Also included in the volume are shorter original papers dealing with somewhat different aspects of geometry and dedicated to Armentrout by his colleagues Augustin Banyaga and Jean Pierre Ezin David Hurtubise Hossein Movahedi Lankarani and Robert Wells Topics in Low Dimensional Topology Radu Popescu,2001 Topics in low-dimensional topology Augustin Banyaga,Hossein Movahedi-Lankarani,Robert Wells,1999 **New Ideas In Low Dimensional Topology** Vassily Olegovich Manturov,Louis H Kauffman,2015-01-27 This book consists of a selection of articles devoted to new ideas and developments in low dimensional topology Low dimensions refer to dimensions three and four for the topology of manifolds and their submanifolds Thus we have papers related to both manifolds and to knotted submanifolds of dimension one in three classical knot theory and two in four surfaces in four dimensional spaces Some of the work involves virtual knot theory where the knots are abstractions of classical knots but can be represented by knots embedded in surfaces This leads both to new interactions with classical topology and to new interactions with essential combinatorics **Topics in low-dimensional topology : in honor of Steve Armentrout : proceedings of the Conference on Low-Dimensional Topology** Augustin Banyaga,1999 **Differential and Low-Dimensional Topology** András Juhász,2023-04-20 The new student in differential and low dimensional topology is

faced with a bewildering array of tools and loosely connected theories This short book presents the essential parts of each enabling the reader to become literate in the field and begin research as quickly as possible The only prerequisite assumed is an undergraduate algebraic topology course The first half of the text reviews basic notions of differential topology and culminates with the classification of exotic seven spheres It then dives into dimension three and knot theory There then follows an introduction to Heegaard Floer homology a powerful collection of modern invariants of three and four manifolds and of knots that has not before appeared in an introductory textbook The book concludes with a glimpse of four manifold theory Students will find it an exhilarating and authoritative guide to a broad swathe of the most important topics in modern topology

**Singularities and Low Dimensional Topology** Javier Fernández de Bobadilla, Marco Marengon, András Némethi, András Stipsicz, 2024-10-09 The special semester Singularities and low dimensional topology in the Spring of 2023 at the Erdős Center Budapest brought together algebraic geometers and topologists to discuss and explore the strong connection between surface singularities and topological properties of three and four dimensional manifolds The semester featured a Winter School with four lecture series and several focused weeks This volume contains the notes of the lecture series of the Winter School and some of the lecture notes from the focused weeks Topics covered in this collection range from algebraic geometry of complex curves lattice homology of curve and surface singularities to novel results in smooth four dimensional topology and grid homology and to Seiberg Witten homotopy theory and spacification of knot invariants Some of these topics are already well documented in the literature and the lectures aim to provide a new perspective and fresh connections Other topics are rather new and have been covered only in research papers We hope that this volume will be useful not only for advanced graduate students and early stage researchers but also for the more experienced geometers and topologists who want to be informed about the latest developments in the field

**Low Dimensional Topology and Number Theory** Masanori Morishita, Hiroaki Nakamura, Jun Ueki, 2025-03-02 This book is the result of research initiatives formed during the workshop Low Dimensional Topology and Number Theory XIII at Kyushu University in 2022 It is also dedicated to the memory of Professor Toshie Takata who has been a main figure of the session chairs for the series of annual workshops since 2009 The activity was aimed at understanding and deepening recent developments of lively and fruitful interactions between low dimensional topology and number theory over the past decades In this volume of proceedings the reader will find research papers as well as survey articles including open problems at the interface between classical and quantum topology and algebraic and analytic number theory written by leading experts and active researchers in the respective fields Topics include among others the strong slope conjecture Kashiwara Vergne Lie algebra braids and fibered double branched covers of 3 manifolds Temperley Lieb Jones category and conformal blocks WRT invariants and false theta functions the colored Jones polynomial of the figure eight knot potential functions and A polynomials l adic Galois polylogarithms Dijkgraaf Witten invariants in Bloch groups analogies between knots and primes in arithmetic topology

normalized Jones polynomials for rational links Iwasawa main conjecture Weber's class number problem The book provides a valuable resource for researchers and graduate students interested in topics related to both low dimensional topology and number theory

**Intelligence Of Low Dimensional Topology 2006** J Scott Carter, Seiichi Kamada, Louis H Kauffman, Akio Kawachi, Toshitake Kohno, 2007-05-29 This volume gathers the contributions from the international conference Intelligence of Low Dimensional Topology 2006 which took place in Hiroshima in 2006 The aim of this volume is to promote research in low dimensional topology with the focus on knot theory and related topics The papers include comprehensive reviews and some latest results

Aspects of Low Dimensional Manifolds Yukio Matsumoto, Shigeyuki Morita, 1992 This volume contains ten original papers written by leading experts in various areas of low dimensional topology The topics covered here are among those showing the most rapid progress in topology today knots and links three dimensional hyperbolic geometry conformally flat structures on three manifolds Floer homology and the geometry and topology of four manifolds Offering both original results and up to date survey papers Aspects of Low Dimensional Manifolds will interest mathematicians physicists graduate students and others seeking a good introduction to the field

**On Virtual Knot Theory** Şaziye Bayram, Doğu Akdeniz Üniversitesi, 2000

*Low Dimensional Topology and Number Theory* Masanori Morishita, Hiroaki Nakamura, Jun Ueki, 2025 This book is the result of research initiatives formed during the workshop Low Dimensional Topology and Number Theory XIII at Kyushu University in 2022 It is also dedicated to the memory of Professor Toshie Takata who has been a main figure of the session chairs for the series of annual workshops since 2009 The activity was aimed at understanding and deepening recent developments of lively and fruitful interactions between low dimensional topology and number theory over the past decades In this volume of proceedings the reader will find research papers as well as survey articles including open problems at the interface between classical and quantum topology and algebraic and analytic number theory written by leading experts and active researchers in the respective fields Topics include among others the strong slope conjecture Kashiwara-Vergne Lie algebra braids and fibered double branched covers of 3 manifolds Temperley-Lieb Jones category and conformal blocks WRT invariants and false theta functions the colored Jones polynomial of the figure eight knot potential functions and A-polynomials  $l$ -adic Galois polylogarithms Dijkgraaf-Witten invariants in Bloch groups analogies between knots and primes in arithmetic topology normalized Jones polynomials for rational links Iwasawa main conjecture Weber's class number problem The book provides a valuable resource for researchers and graduate students interested in topics related to both low dimensional topology and number theory

**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 Sazdanovic, 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

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

*Low-Dimensional Topology* R. Brown, T. L. Thickstun, 1982-05-20 This volume consists of the proceedings of a conference held at the University College of North Wales Bangor in July of 1979 It assembles research papers which reflect diverse currents in low dimensional topology The topology of 3 manifolds hyperbolic geometry and knot theory emerge as major themes The inclusion of surveys of work in these areas should make the book very useful to students as well as researchers

**Geometric and Topological Methods for Quantum Field Theory** Hernan Ocampo, Eddy Pariguan, Sylvie Paycha, 2010-04-29 Aimed at graduate students in physics and mathematics this book provides an introduction to recent developments in several active topics at the interface between

algebra geometry topology and quantum field theory The first part of the book begins with an account of important results in geometric topology It investigates the differential equation aspects of quantum cohomology before moving on to noncommutative geometry This is followed by a further exploration of quantum field theory and gauge theory describing AdS CFT correspondence and the functional renormalization group approach to quantum gravity The second part covers a wide spectrum of topics on the borderline of mathematics and physics ranging from orbifolds to quantum indistinguishability and involving a manifold of mathematical tools borrowed from geometry algebra and analysis Each chapter presents introductory material before moving on to more advanced results The chapters are self contained and can be read independently of the rest

*Low-Dimensional Topology* Thomas Lusk Thickstun, Ronald Brown, Savilian Professor of Geometry N J Hitchin, 2014-05-14 This volume consists of the proceedings of a conference held at the University College of North Wales Bangor in July of 1979 It assembles research papers which reflect diverse currents in low dimensional topology The topology of 3 manifolds hyperbolic geometry and knot theory emerge as major themes The inclusion of surveys of work in these areas should make the book very useful to students as well as researchers

**Nevanlinna Theory and Complex Differential Equations** Ilpo Laine, 2011-06-01 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob

Representation Theory and Algebraic Geometry A. Martsinkovsky, Gordana Todorov, 1997-05-15 For any researcher working in representation theory algebraic or arithmetic geometry

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## **Table of Contents Topics In Lowdimensional Topology**

1. Understanding the eBook Topics In Lowdimensional Topology
  - The Rise of Digital Reading Topics In Lowdimensional Topology
  - Advantages of eBooks Over Traditional Books
2. Identifying Topics In Lowdimensional Topology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Topics In Lowdimensional Topology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Topics In Lowdimensional Topology
  - Personalized Recommendations
  - Topics In Lowdimensional Topology User Reviews and Ratings
  - Topics In Lowdimensional Topology and Bestseller Lists
5. Accessing Topics In Lowdimensional Topology Free and Paid eBooks

- Topics In Lowdimensional Topology Public Domain eBooks
  - Topics In Lowdimensional Topology eBook Subscription Services
  - Topics In Lowdimensional Topology Budget-Friendly Options
6. Navigating Topics In Lowdimensional Topology eBook Formats
    - ePub, PDF, MOBI, and More
    - Topics In Lowdimensional Topology Compatibility with Devices
    - Topics In Lowdimensional Topology Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Topics In Lowdimensional Topology
    - Highlighting and Note-Taking Topics In Lowdimensional Topology
    - Interactive Elements Topics In Lowdimensional Topology
  8. Staying Engaged with Topics In Lowdimensional Topology
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Topics In Lowdimensional Topology
  9. Balancing eBooks and Physical Books Topics In Lowdimensional Topology
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Topics In Lowdimensional Topology
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Topics In Lowdimensional Topology
    - Setting Reading Goals Topics In Lowdimensional Topology
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Topics In Lowdimensional Topology
    - Fact-Checking eBook Content of Topics In Lowdimensional Topology
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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