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Low Dimensional Topology

Proceedings of a Conference on
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Hanna Nencka
Editor



American Mathematical Society

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Augustin Banyaga



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Low Dimensional Topology Hanna Nencka, 1999 The book has two main parts The first is devoted to the Poincare conjecture characterizations of PL manifolds covering quadratic forms of links and to categories in low dimensional topology that appear in connection with conformal and quantum field theory **Topics in low-dimensional topology : in honor of Steve Armentrout : proceedings of the Conference on Low-Dimensional Topology** Augustin Banyaga, 1999 Recent Advances in Group Theory and Low-dimensional Topology Jens L. Mennicke, Jung Rae Cho, 2003 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 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 **Global Differential Geometry** Christian Bär, Joachim Lohkamp, Matthias Schwarz, 2011-12-18 This volume contains a collection of well written surveys provided by experts in Global Differential Geometry to give an overview over recent developments in Riemannian Geometry Geometric Analysis and Symplectic Geometry The papers are written for graduate students and researchers with a general interest in geometry who want to get acquainted with the current trends in these central fields of modern mathematics ,

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Rutter,2006-11-14 This survey covers groups of homotopy self equivalence classes of topological spaces and the homotopy type of spaces of homotopy self equivalences For manifolds the full group of equivalences and the mapping class group are compared as are the corresponding spaces Included are methods of calculation numerous calculations finite generation results Whitehead torsion and other areas Some 330 references are given The book assumes familiarity with cell complexes homology and homotopy Graduate students and established researchers can use it for learning for reference and to determine the current state of knowledge Geometric Folding Algorithms Erik D. Demaine,Joseph O'Rourke,2007-07-16 Did you know that any straight line drawing on paper can be folded so that the complete drawing can be cut out with one straight scissors cut That there is a planar linkage that can trace out any algebraic curve or even sign your name Or that a Latin cross unfolding of a cube can be refolded to 23 different convex polyhedra Over the past decade there has been a surge of interest in such problems with applications ranging from robotics to protein folding With an emphasis on algorithmic or computational aspects this treatment gives hundreds of results and over 60 unsolved open problems to inspire further research The authors cover one dimensional 1D objects linkages 2D objects paper and 3D objects polyhedra Aimed at advanced undergraduate and graduate students in mathematics or computer science this lavishly illustrated book will fascinate a broad audience from school students to researchers **Algebraic and Geometric Combinatorics** Christos A. Athanasiadis,2006 This volume contains original research and survey articles stemming from the Euroconference Algebraic and Geometric Combinatorics The papers discuss a wide range of problems that illustrate interactions of combinatorics with other branches of mathematics such as commutative algebra algebraic geometry convex and discrete geometry enumerative geometry and topology of complexes and partially ordered sets Among the topics covered are combinatorics of polytopes lattice polytopes triangulations and subdivisions Cohen Macaulay cell complexes monomial ideals geometry of toric surfaces groupoids in combinatorics Kazhdan Lusztig combinatorics and graph colorings This book is aimed at researchers and graduate students interested in various aspects of modern combinatorial theories **Knots '96: Proceedings Of The Fifth International Research Institute Of Mathematical Society Of Japan** S Suzuki,1997-04-19 This is the proceedings of an international conference on knot theory held in July 1996 at Waseda University Conference Center It was organised by the International Research Institute of Mathematical Society of Japan The conference was attended by nearly 180 mathematicians from Japan and 14 other countries Most of them were specialists in knot theory The volume contains 43 papers which deal with significant current research in knot theory low dimensional topology and related topics The volume includes papers by the following invited speakers G Burde R Fenn L H Kauffman J Levine J M Montesinos A H R Morton K Murasugi T Soma and D W Sumners 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

Collected Papers of John Milnor John Willard Milnor,1994

Quantum Invariants of Knots and 3-Manifolds Vladimir G. Turaev,2016-07-11 Due to the strong appeal and wide use of this monograph it is now available in its third revised edition The monograph gives a systematic treatment of 3 dimensional topological quantum field theories TQFTs based on the work of the author with N Reshetikhin and O Viro This subject was inspired by the discovery of the Jones polynomial of knots and the Witten Chern Simons field theory On the algebraic side the study of 3 dimensional TQFTs has been influenced by the theory of braided categories and the theory of quantum groups The book is divided into three parts Part I presents a construction of 3 dimensional TQFTs and 2 dimensional modular functors from so called modular categories This gives a vast class of knot invariants and 3 manifold invariants as well as a class of linear representations of the mapping class groups of surfaces In Part II the technique of 6j symbols is used to define state sum invariants of 3 manifolds Their relation to the TQFTs constructed in Part I is established via the theory of shadows Part III provides constructions of modular categories based on quantum groups and skein modules of tangles in the 3 space This fundamental contribution to topological quantum field theory is accessible to graduate students in mathematics and physics with knowledge of basic algebra and topology It is an indispensable source for everyone who wishes to enter the forefront of this fascinating area at the borderline of mathematics and physics

Contents Invariants of graphs in Euclidean 3 space and of closed 3 manifolds Foundations of topological quantum field theory Three dimensional topological quantum field theory Two dimensional modular functors 6j symbols Simplicial state sums on 3 manifolds Shadows of manifolds and state sums on shadows Constructions of modular categories

Encyclopedia of Knot Theory Colin Adams, Erica Flapan, Allison Henrich, Louis H. Kauffman, Lewis D. Ludwig, Sam Nelson,2021-02-10 Knot theory is a fascinating mathematical subject with multiple links to theoretical physics This encyclopedia is filled with valuable information on a rich and fascinating subject Ed Witten Recipient of the Fields Medal I spent a pleasant afternoon perusing the Encyclopedia of Knot Theory It is a comprehensive compilation of clear introductions to both classical and very modern developments in the field It will be a terrific resource for the accomplished researcher and will also be an excellent way to lure students both graduate and undergraduate into the field Abigail Thompson Distinguished Professor of Mathematics at University of California Davis Knot theory has proven to be a fascinating area of mathematical research dating back about 150 years Encyclopedia of Knot Theory provides short interconnected articles on a variety of active areas in knot theory and includes beautiful pictures deep mathematical connections and critical applications Many of the articles in this book are accessible to undergraduates who are working on research or taking an advanced undergraduate course in knot theory More advanced articles will be useful to graduate students working on a related thesis topic to researchers in another area of topology who are interested in current results in knot theory and to scientists who study the topology and geometry of biopolymers

Features Provides material that is useful and accessible to undergraduates postgraduates and full time researchers Topics discussed provide an excellent catalyst for students to explore meaningful research and gain confidence and commitment to pursuing advanced degrees Edited and contributed by top researchers in the field of knot theory *Low Dimensional Topology* American Mathematical Society,1983 Derived from a special session on Low Dimensional Topology organized and conducted by Dr Lomonaco at the American Mathematical Society meeting held in San Francisco California January 7 11 1981 *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

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Surveys on Surgery Theory, Volume 2 Sylvain Cappell,Andrew Ranicki,Jonathan Rosenberg,2014-09-08 Surgery theory the basis for the classification theory of manifolds is now about forty years old The sixtieth birthday on December 14 1996 of C T C Wall a leading member of the subject's founding generation led the editors of this volume to reflect on the extraordinary accomplishments of surgery theory as well as its current enormously varied interactions with algebra analysis and geometry Workers in many of these areas have often lamented the lack of a single source surveying surgery theory and its applications Because no one person could write such a survey the editors asked a variety of experts to report on the areas of current interest This is the second of two volumes resulting from that collective effort It will be useful to topologists to other interested researchers and to advanced students The topics covered include current applications of surgery Wall's

finiteness obstruction algebraic surgery automorphisms and embeddings of manifolds surgery theoretic methods for the study of group actions and stratified spaces metrics of positive scalar curvature and surgery in dimension four In addition to the editors the contributors are S Ferry M Weiss B Williams T Goodwillie J Klein S Weinberger B Hughes S Stolz R Kirby L Taylor and F Quinn

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