

Riccardo Benedetti
Carlo Petronio

Branched Standard Spines of 3-manifolds

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R. Benedetti, Francesco Bonsante



Branched Standard Spines Of 3-manifolds:

Branched Standard Spines of 3-manifolds Riccardo Benedetti, Carlo Petronio, 2006-11-14 This book provides a unified combinatorial realization of the categories of closed oriented 3 manifolds comb 3 manifolds framed 3 manifolds and spin 3 manifolds In all four cases the objects of the realization are finite enhanced graphs and only finitely many local moves have to be taken into account These realizations are based on the notion of branched standard spine introduced in the book as a combination of the notion of branched surface with that of standard spine The book is intended for readers interested in low dimensional topology and some familiarity with the basics is assumed A list of questions some of which concerning relations with the theory of quantum invariants is enclosed

Branched Standard Spines Of 3-Manifolds Riccardo Benedetti, Carlo Petronio, 2014-01-15 *European Congress of Mathematics* Antal Balog, D. Szasz, A. Recski, G.D.H.

Katona, 1998-07-21 This is the first volume of the proceedings of the second European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners Together with volume II it contains a collection of contributions by the invited lecturers Finally volume II also presents reports on some of the Round Table discussions This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician Contributors Vol I N Alon L Ambrosio K Astala R Benedetti Ch Bessenrodt F Bethuel P Björnstad E Bolthausen J Bricmont A Kupiainen D Burago L Caporaso U Dierkes I Dynnikov L H Eliasson W T Gowers H Hedenmalm A Huber J Kaczorowski J Kollár D O Kramkov A N Shiryaev C Lescop R M rz Vol II J Matousek D McDuff A S Merkurjev V Milman St M ller T Nowicki E Olivieri E Scoppola V P Platonov J P schel L Polterovich L Pyber N Sim nyi J P Solovej A Stipsicz G Tardos J P Tignol A P Veselov E Zuazua

Canonical Wick Rotations in 3-Dimensional Gravity R. Benedetti, Francesco Bonsante, 2009-03-06 The authors develop a canonical Wick rotation rescaling theory in 3 dimensional gravity This includes a A simultaneous classification this shows how maximal globally hyperbolic spacetimes of arbitrary constant curvature which admit a complete Cauchy surface and canonical cosmological time as well as complex projective structures on arbitrary surfaces are all different materializations of more fundamental encoding structures b Canonical geometric correlations this shows how spacetimes of different curvature that share a same encoding structure are related to each other by canonical rescalings and how they can be transformed by canonical Wick rotations in hyperbolic 3 manifolds that carry the appropriate asymptotic projective structure Both Wick rotations and rescalings act along the canonical cosmological time and have universal rescaling functions These correlations are functorial with respect to isomorphisms of the respective geometric categories

Morse Theory Of Gradient Flows, Concavity And Complexity On Manifolds With Boundary Gabriel Katz, 2019-08-21 This monograph is an account of the author's investigations of gradient vector flows on compact manifolds with boundary Many mathematical structures and constructions in the book fit comfortably in the framework of Morse Theory and more generally

of the Singularity Theory of smooth maps The geometric and combinatorial structures arising from the interactions of vector flows with the boundary of the manifold are surprisingly rich This geometric setting leads organically to many encounters with Singularity Theory Combinatorics Differential Topology Differential Geometry Dynamical Systems and especially with the boundary value problems for ordinary differential equations This diversity of connections animates the book and is the main motivation behind it The book is divided into two parts The first part describes the flows in three dimensions It is more pictorial in nature The second part deals with the multi dimensional flows and thus is more analytical Each of the nine chapters starts with a description of its purpose and main results This organization provides the reader with independent entrances into different chapters

Homotopy Quantum Field Theory Vladimir G. Turaev, 2010 Homotopy Quantum Field Theory HQFT is a branch of Topological Quantum Field Theory founded by E Witten and M Atiyah It applies ideas from theoretical physics to study principal bundles over manifolds and more generally homotopy classes of maps from manifolds to a fixed target space This book is the first systematic exposition of Homotopy Quantum Field Theory It starts with a formal definition of an HQFT and provides examples of HQFTs in all dimensions The main body of the text is focused on 2 dimensional and 3 dimensional HQFTs A study of these HQFTs leads to new algebraic objects crossed Frobenius group algebras crossed ribbon group categories and Hopf group coalgebras These notions and their connections with HQFTs are discussed in detail The text ends with several appendices including an outline of recent developments and a list of open problems Three appendices by M Muger and A Virelizier summarize their work in this area The book is addressed to mathematicians theoretical physicists and graduate students interested in topological aspects of quantum field theory The exposition is self contained and well suited for a one semester graduate course Prerequisites include only basics of algebra and topology

Integral Geometry, Radon Transforms and Complex Analysis Carlos A. Berenstein, Peter F. Ebenfelt, Simon Gindikin, Sigurdur Helgason, Alexander Tumanov, 1998-04-16 This book contains the notes of five short courses delivered at the Centro Internazionale Matematico Estivo session Integral Geometry Radon Transforms and Complex Analysis held in Venice Italy in June 1996 three of them deal with various aspects of integral geometry with a common emphasis on several kinds of Radon transforms their properties and applications the other two share a stress on CR manifolds and related problems All lectures are accessible to a wide audience and provide self contained introductions and short surveys on the subjects as well as detailed expositions of selected results

Approximation of Free-Discontinuity Problems Andrea Braides, 1998-09-17 Functionals involving both volume and surface energies have a number of applications ranging from Computer Vision to Fracture Mechanics In order to tackle numerical and dynamical problems linked to such functionals many approximations by functionals defined on smooth functions have been proposed using high order singular perturbations finite difference or non local energies etc The purpose of this book is to present a global approach to these approximations using the theory of gamma convergence and of special functions of bounded variation The book is directed to PhD students

and researchers in calculus of variations interested in approximation problems with possible applications Improved Bonferroni Inequalities via Abstract Tubes Klaus Dohmen, 2003 *Mathematical Problems in Semiconductor Physics* Angelo Marcello Anile, Walter Allegretto, Christian Ringhofer, 2003-09-16 On the the mathematical aspects of the theory of carrier transport in semiconductor devices The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics mathematical theory of drift diffusion equations with applications and the methods of asymptotic analysis

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Table of Contents Branched Standard Spines Of 3manifolds

1. Understanding the eBook Branched Standard Spines Of 3manifolds
 - The Rise of Digital Reading Branched Standard Spines Of 3manifolds
 - Advantages of eBooks Over Traditional Books
2. Identifying Branched Standard Spines Of 3manifolds
 - 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 Branched Standard Spines Of 3manifolds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Branched Standard Spines Of 3manifolds
 - Personalized Recommendations
 - Branched Standard Spines Of 3manifolds User Reviews and Ratings
 - Branched Standard Spines Of 3manifolds and Bestseller Lists
5. Accessing Branched Standard Spines Of 3manifolds Free and Paid eBooks
 - Branched Standard Spines Of 3manifolds Public Domain eBooks

- Branched Standard Spines Of 3manifolds eBook Subscription Services
- Branched Standard Spines Of 3manifolds Budget-Friendly Options
- 6. Navigating Branched Standard Spines Of 3manifolds eBook Formats
 - ePub, PDF, MOBI, and More
 - Branched Standard Spines Of 3manifolds Compatibility with Devices
 - Branched Standard Spines Of 3manifolds Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Branched Standard Spines Of 3manifolds
 - Highlighting and Note-Taking Branched Standard Spines Of 3manifolds
 - Interactive Elements Branched Standard Spines Of 3manifolds
- 8. Staying Engaged with Branched Standard Spines Of 3manifolds
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Branched Standard Spines Of 3manifolds
- 9. Balancing eBooks and Physical Books Branched Standard Spines Of 3manifolds
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Branched Standard Spines Of 3manifolds
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Branched Standard Spines Of 3manifolds
 - Setting Reading Goals Branched Standard Spines Of 3manifolds
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Branched Standard Spines Of 3manifolds
 - Fact-Checking eBook Content of Branched Standard Spines Of 3manifolds
 - 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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