Tim Hsu

Quilts: Central Extensions, Braid Actions, and Finite Groups

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Jan Stevens

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Sommerhäuser,2004-10-19 Being the first monograph devoted to this subject the book addresses the classification problem for semisimple Hopf algebras a field that has attracted considerable attention in the last years The special approach to this problem taken here is via semidirect product decompositions into Yetter Drinfel d Hopf algebras and group rings of cyclic groups of prime order One of the main features of the book is a complete treatment of the structure theory for such Yetter Drinfel d Hopf algebras   Lectures on the Automorphism Groups of Kobayashi-Hyperbolic Manifolds Alexander Isaev,2007-03-11 In this monograph the author presents a coherent exposition of recent results on complete characterization of Kobayashi hyperbolic manifolds with high dimensional groups of holomorphic automorphisms These classification results can be viewed as complex geometric analogues of those known for Riemannian manifolds with high dimensional isotropy groups that were extensively studied in the 1950s 70s   Moonshine beyond the Monster Terry Gannon,2023-07-27 A monograph on Moonshine a mathematical physics topic for graduate students and researchers   *Moonshine - The First Quarter Century and Beyond* James Lepowsky,John McKay,Michael P. Tuite,2010-06-03 This volume examines the impact of the Monstrous Moonshine paper on mathematics and theoretical physics   Posn(R) and Eisenstein Series ,2005

Hypoelliptic Estimates and Spectral Theory for Fokker-Planck Operators and Witten Laplacians Francis Nier,Bernard Helffer,2005-01-17 There has recently been a renewal of interest in Fokker Planck operators motivated by problems in statistical physics in kinetic equations and differential geometry Compared to more standard problems in the spectral theory of partial differential operators those operators are not self adjoint and only hypoelliptic The aim of the analysis is to give as generally as possible an accurate qualitative and quantitative description of the exponential return to the thermodynamical equilibrium While exploring and improving recent results in this direction this volume proposes a review of known techniques on the hypoellipticity of polynomial of vector fields and its global counterpart the global Weyl H rmander pseudo differential calculus the spectral theory of non self adjoint operators the semi classical analysis of Schr dinger type operators the Witten complexes and the Morse inequalities   Tutorials in Mathematical Biosciences II James Sneyd,2005-06-13 This book presents a series of models in the general area of cell physiology and signal transduction with particular attention being paid to intracellular calcium dynamics and the role played by calcium in a variety of cell types Calcium plays a crucial role in cell physiology and the study of its dynamics lends insight into many different cellular processes In particular calcium plays a central role in muscular contraction olfactory transduction and synaptic communication three of the topics to be addressed in detail in this book In addition to the models much of the underlying physiology is presented so that readers may learn both the mathematics and the physiology and see how the models are applied to specific biological questions It is intended primarily as a graduate text or a research reference It will serve as a concise and up to date introduction to all those who wish to learn about the state of calcium dynamics modeling and how such models are applied to physiological questions   *Iterative Approximation of Fixed Points* Vasile Berinde,2007-04-20

This monograph gives an introductory treatment of the most important iterative methods for constructing fixed points of nonlinear contractive type mappings For each iterative method considered it summarizes the most significant contributions in the area by presenting some of the most relevant convergence theorems It also presents applications to the solution of nonlinear operator equations as well as the appropriate error analysis of the main iterative methods   Geometric Aspects of Functional Analysis Vitali D. Milman,Gideon Schechtman,2007-04-27 This collection of original papers related to the Israeli GAFA seminar on Geometric Aspects of Functional Analysis during the years 2004 2005 reflects the general trends of the theory and are a source of inspiration for research Most of the papers deal with different aspects of the Asymptotic Geometric Analysis ranging from classical topics in the geometry of convex bodies to the study of sections or projections of convex bodies   **Attractivity and Bifurcation for Nonautonomous Dynamical Systems** Martin Rasmussen,2007-06-08 Although bifurcation theory of equations with autonomous and periodic time dependence is a major object of research in the study of dynamical systems since decades the notion of a nonautonomous bifurcation is not yet established In this book two different approaches are developed which are based on special definitions of local attractivity and repulsivity It is shown that these notions lead to nonautonomous Morse decompositions   *A Concise Course on Stochastic Partial Differential Equations* Claudia Prévôt,Michael Röckner,2007-05-26 These lectures concentrate on nonlinear stochastic partial differential equations SPDE of evolutionary type There are three approaches to analyze SPDE the martingale measure approach the mild solution approach and the variational approach The purpose of these notes is to give a concise and as self contained as possible an introduction to the variational approach A large part of necessary background material is included in appendices
     Deformations of Singularities Jan Stevens,2003-01-01 These notes deal with deformation theory of complex analytic singularities and related objects The first part treats general theory The central notion is that of versal deformation in several variants The theory is developed both in an abstract way and in a concrete way suitable for computations The second part deals with more specific problems specially on curves and surfaces Smoothings of singularities are the main concern Examples are spread throughout the text   *Geometric Aspects of Functional Analysis* ,2003   **Topology of Singular Fibers of Differentiable Maps** Osamu Saeki,2004-08-30 The volume develops a thorough theory of singular fibers of generic differentiable maps This is the first work that establishes the foundational framework of the global study of singular differentiable maps of negative codimension from the viewpoint of differential topology The book contains not only a general theory but also some explicit examples together with a number of very concrete applications This is a very interesting subject in differential topology since it shows a beautiful interplay between the usual theory of singularities of differentiable maps and the geometric topology of manifolds

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