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Lie Groups, Lie Algebras, Cohomology and Some Applications in Physics **The Geometry and Cohomology of Some Simple Shimura Varieties. (AM-151)** Homology and Cohomology of Some Groups **The MOD 2 Cohomology of Some Classifying Spaces of Compact Lie Groups** On the Cohomology of Some Representation Rings *Cohomology of Some Finite Groups* On the Structure of the Cohomology of Some Free Loop Spaces *Completion, ?ech and Local Homology and Cohomology* **Annals of Mathematics Studies P-adic Cohomology of Some Singular Varieties** *On the (g,K)-cohomology of Some Theta Lift* **The Geometry and Cohomology of Some Simple Shimura Varieties The Cohomology of Some Banach Algebras On Galois Cohomology of Some P-adic Representations and Étale K-theory of Curves** Handbook of Geometric Topology Representation Theory and Beyond Cohomology of Groups Categorical Decomposition Techniques in Algebraic Topology Transformation Groups **Basic Bundle Theory and K-Cohomology Invariants** *Some Topics in Cohomology Theory* **Intersection Cohomology** Some elementary results on the cohomology of graded Lie algebras Differential Equations on Manifolds and Mathematical Physics *Classifying Spaces of Sporadic Groups* Combinatorial and Computational Mathematics **Cohomology of Infinite-Dimensional Lie Algebras Non-abelian Fundamental Groups and Iwasawa Theory** Harmonic Analysis, the Trace Formula, and Shimura Varieties Some Theorems on Cohomology on Groups with Applications Combinatorial and Geometric Group Theory, Edinburgh 1993 **Local Cohomology and Its Applications Some Results on Cohomology with Borel Cochains, with Applications to Group Actions on Operator Algebras** *On Some Examples of Poisson Homology and Cohomology K-theory and Algebraic Geometry* Cohomology Rings of Finite Groups **Mathematics of the USSR: Izvestija** *Quandles and Topological Pairs Lectures on Algebraic Geometry II Central Simple Algebras and Galois Cohomology*

There is no question that the cohomology of infinite dimensional Lie algebras deserves a brief and separate mono graph. This subject is not cover~d by any of

the tradition al branches of mathematics and is characterized by relative ly elementary proofs and varied application. Moreover, the subject matter is widely scattered in various research papers or exists only in verbal form. The theory of infinite-dimensional Lie algebras differs markedly from the theory of finite-dimensional Lie algebras in that the latter possesses powerful classification theo rems, which usually allow one to "recognize" any finite dimensional Lie algebra (over the field of complex or real numbers), i.e., find it in some list. There are classifica tion theorems in the theory of infinite-dimensional Lie al gebras as well, but they are encumbered by strong restric tions of a technical character. These theorems are useful mainly because they yield a considerable supply of interest ing examples. We begin with a list of such examples, and further direct our main efforts to their study. This volume collects presentations from the international workshop on local cohomology held in Guanajuato, Mexico, including expanded lecture notes of two minicourses on applications in equivariant topology and foundations of duality theory, and chapters on finiteness properties, D-modules, monomial ideals, combinatorial analysis, and related topics. Featuring selected papers from renowned experts around the world, Local Cohomology and Its Applications is a provocative reference for algebraists, topologists, and upper-level undergraduate and graduate students in these disciplines. This dissertation, "On Some Examples of Poisson Homology and Cohomology: Analytic and Lie Theoretic Approaches" by Bing-kwan, So, ???, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: Abstract of thesis entitled ON SOME EXAMPLES OF POISSON HOMOLOGY AND COHOMOLOGY - ANALYTIC AND LIE THEORETIC APPROACHES submitted by SO BING KWAN for the Degree of Master of Philosophy at The University of Hong Kong in August 2005 ThePoissoncohomologyandhomologyofa Poissonmanifoldisanimportant invariant of the Poisson manifold. In this thesis, some methods of computing the Poisson homology and cohomology of Poisson manifolds were studied. The rst part of the thesis studies the Poisson homology and cohomology of a compact, orientable Poisson manifold equipped with a Riemannian metric. It was found that the formal adjoints of both the Poisson di(R)erential operator and the Poisson co-di(R)erential operator exist. Explicit formulae for these op- erators were derived, and the Laplacian operator was shown to be essentially self-adjoint. The notion of L - Poisson homology was introduced, and it was shown that the L - Poisson

homology is isomorphic to the kernel of the unique self-adjoint extension of the Laplacian. The second part of the thesis studies the Poisson homology of Poisson ho- mogeneous spaces. The Poisson homology of such spaces was shown to be isomorphic to certain relative Lie algebra cohomology. SeveralexamplesofPoissonhomologywerestudiedusingtheabovemethods. For a compact, connected, and orientable Poisson 2-manifolds with the Poisson structure being non-degenerate on an open dense subset, the Poisson homology was computed by direct computation. The Poisson homology of the Bruhat2 sphere was studied through Lie algebra homology. The zeroth L - Poisson homology of the Poisson Lie group SU (2) was shown to be trivial. DOI: 10.5353/th_b3617063 Subjects: Homology theory Poisson manifolds This book aims first to prove the local Langlands conjecture for GLn over a p-adic field and, second, to identify the action of the decomposition group at a prime of bad reduction on the l-adic cohomology of the "simple" Shimura varieties. These two problems go hand in hand. The results represent a major advance in algebraic number theory, finally proving the conjecture first proposed in Langlands's 1969 Washington lecture as a non-abelian generalization of local class field theory. The local Langlands conjecture for GLn(K), where K is a p-adic field, asserts the existence of a correspondence, with certain formal properties, relating n-dimensional representations of the Galois group of K with the representation theory of the locally compact group GLn(K). This book constructs a candidate for such a local Langlands correspondence on the vanishing cycles attached to the bad reduction over the integer ring of K of a certain family of Shimura varieties. And it proves that this is roughly compatible with the global Galois correspondence realized on the cohomology of the same Shimura varieties. The local Langlands conjecture is obtained as a corollary. Certain techniques developed in this book should extend to more general Shimura varieties, providing new instances of the local Langlands conjecture. Moreover, the geometry of the special fibers is strictly analogous to that of Shimura curves and can be expected to have applications to a variety of questions in number theory. This is a volume originating from the Conference on Partial Differential Equations and Applications, which was held in Moscow in November 2018 in memory of professor Boris Sternin and attracted more than a hundred participants from eighteen countries. The conference was mainly dedicated to partial differential equations on manifolds and their applications in mathematical physics, geometry, topology, and complex analysis. The volume contains selected contributions by leading experts in these fields and presents the current state of the art in several areas of PDE. It will be of interest to researchers and graduate students specializing in partial differential equations, mathematical physics, topology,

geometry, and their applications. The readers will benefit from the interplay between these various areas of mathematics. Aimed at second year graduate students, this text introduces them to cohomology theory (involving a rich interplay between algebra and topology) with a minimum of prerequisites. No homological algebra is assumed beyond what is normally learned in a first course in algebraic topology, and the basics of the subject, as well as exercises, are given prior to discussion of more specialized topics. “This book is a jewel – it explains important, useful and deep topics in Algebraic Topology that you won’t find elsewhere, carefully and in detail.” Prof. Günter M. Ziegler, TU Berlin This book surveys quandle theory, starting from basic motivations and going on to introduce recent developments of quandles with topological applications and related topics. The book is written from topological aspects, but it illustrates how esteemed quandle theory is in mathematics, and it constitutes a crash course for studying quandles.More precisely, this work emphasizes the fresh perspective that quandle theory can be useful for the study of low-dimensional topology (e.g., knot theory) and relative objects with symmetry. The direction of research is summarized as “We shall thoroughly (re)interpret the previous studies of relative symmetry in terms of the quandle”. The perspectives contained herein can be summarized by the following topics. The first is on relative objects G/H, where G and H are groups, e.g., polyhedrons, reflection, and symmetric spaces. Next, central extensions of groups are discussed, e.g., spin structures, K2 groups, and some geometric anomalies. The third topic is a method to study relative information on a 3-dimensional manifold with a boundary, e.g., knot theory, relative cup products, and relative group cohomology.For applications in topology, it is shown that from the perspective that some existing results in topology can be recovered from some quandles, a method is provided to diagrammatically compute some “relative homology”. (Such classes since have been considered to be uncomputable and speculative). Furthermore, the book provides a perspective that unifies some previous studies of quandles.The former part of the book explains motivations for studying quandles and discusses basic properties of quandles. The latter focuses on low-dimensional topology or knot theory. Finally, problems and possibilities for future developments of quandle theory are posed. The aim of the present monograph is a thorough study of the adic-completion, its left derived functors and their relations to the local cohomology functors, as well as several completeness criteria, related questions and various dualities formulas. A basic construction is the ?ech complex with respect to a system of elements and its free resolution. The study of its homology and cohomology will play a crucial role in order to understand left derived functors of completion and right derived functors of torsion. This is useful for the

extension and refinement of results known for modules to unbounded complexes in the more general setting of not necessarily Noetherian rings. The book is divided into three parts. The first one is devoted to modules, where the adic-completion functor is presented in full details with generalizations of some previous completeness criteria for modules. Part II is devoted to the study of complexes. Part III is mainly concerned with duality, starting with those between completion and torsion and leading to new aspects of various dualizing complexes. The Appendix covers various additional and complementary aspects of the previous investigations and also provides examples showing the necessity of the assumptions. The book is directed to readers interested in recent progress in Homological and Commutative Algebra. Necessary prerequisites include some knowledge of Commutative Algebra and a familiarity with basic Homological Algebra. The book could be used as base for seminars with graduate students interested in Homological Algebra with a view towards recent research. This volume contains the proceedings of the Workshop and 18th International Conference on Representations of Algebras (ICRA 2018) held from August 8–17, 2018, in Prague, Czech Republic. It presents several themes of contemporary representation theory together with some new tools, such as stable ? ?-categories, stable derivators, and contramodules. In the first part, expanded lecture notes of four courses delivered at the workshop are presented, covering the representation theory of finite sets with correspondences, geometric theory of quiver Grassmannians, recent applications of contramodules to tilting theory, as well as symmetries in the representation theory over an abstract stable homotopy theory. The second part consists of six more-advanced papers based on plenary talks of the conference, presenting selected topics from contemporary representation theory: recollements and purity, maximal green sequences, cohomological Hall algebras, Hochschild cohomology of associative algebras, cohomology of local selfinjective algebras, and the higher Auslander–Reiten theory studied via homotopy theory. For each of the 26 sporadic finite simple groups, the authors construct a 2-completed classifying space using a homotopy decomposition in terms of classifying spaces of suitable 2-local subgroups. This construction leads to an additive decomposition of the mod 2 group cohomology. Geometric Topology is a foundational component of modern mathematics, involving the study of spacial properties and invariants of familiar objects such as manifolds and complexes. This volume, which is intended both as an introduction to the subject and as a wide ranging resouce for those already grounded in it, consists of 21 expository surveys written by leading experts and covering active areas of current research. They provide the reader with an up-to-date overview of this flourishing branch of mathematics. Based on several recent courses given to

mathematical physics students, this volume is an introduction to bundle theory. It aims to provide newcomers to the field with solid foundations in topological K-theory. A fundamental theme, emphasized in the book, centers around the gluing of local bundle data related to bundles into a global object. One renewed motivation for studying this subject, comes from quantum field theory, where topological invariants play an important role. Volume 1 of two - also available in a two volume set. The first comprehensive, modern introduction to the theory of central simple algebras over arbitrary fields, this book starts from the basics and reaches such advanced results as the Merkurjev–Suslin theorem, a culmination of work initiated by Brauer, Noether, Hasse and Albert, and the starting point of current research in motivic cohomology theory by Voevodsky, Suslin, Rost and others. Assuming only a solid background in algebra, the text covers the basic theory of central simple algebras, methods of Galois descent and Galois cohomology, Severi–Brauer varieties, and techniques in Milnor K-theory and K-cohomology, leading to a full proof of the Merkurjev–Suslin theorem and its application to the characterization of reduced norms. The final chapter rounds off the theory by presenting the results in positive characteristic, including the theorems of Bloch–Gabber–Kato and Izhboldin. This second edition has been carefully revised and updated, and contains important additional topics. Langlands program proposes fundamental relations that tie arithmetic information from number theory and algebraic geometry with analytic information from harmonic analysis and group representations. This title intends to provide an entry point into this exciting and challenging field. The ICMS Workshop on Geometric and Combinatorial Methods in Group Theory, held at Heriot-Watt University in 1993, brought together some of the leading research workers in the subject. Some of the survey articles and contributed papers presented at the meeting are collected in this volume. The former cover a number of areas of current interest and include papers by: S. M. Gersten, R. I. Grigorchuk, P. H. Kropholler, A. Lubotzky, A. A. Razborov and E. Zelmanov. The contributed articles, all refereed, range over a wide number of topics in combinatorial and geometric group theory and related topics. The volume represents a summary of the state of knowledge of the field, and as such will be indispensable to all research workers in the area. Group cohomology has a rich history that goes back a century or more. Its origins are rooted in investigations of group theory and num ber theory, and it grew into an integral component of algebraic topology. In the last thirty years, group cohomology has developed a powerful con nection with finite group representations. Unlike the early applications which were primarily concerned with cohomology in low degrees, the in teractions with representation theory involve cohomology rings and the geometry of spectra over

these rings. It is this connection to represen tation theory that we take as our primary motivation for this book. The book consists of two separate pieces. Chronologically, the first part was the computer calculations of the mod-2 cohomology rings of the groups whose orders divide 64. The ideas and the programs for the calculations were developed over the last 10 years. Several new features were added over the course of that time. We had originally planned to include only a brief introduction to the calculations. However, we were persuaded to produce a more substantial text that would include in greater detail the concepts that are the subject of the calculations and are the source of some of the motivating conjectures for the com putations. We have gathered together many of the results and ideas that are the focus of the calculations from throughout the mathematical literature. This book is a publication in Swiss Seminars, a subseries of Progress in Mathematics. It is an expanded version of the notes from a seminar on intersection cohomology theory, which met at the University of Bern, Switzerland, in the spring of 1983. This volume supplies an introduction to the piecewise linear and sheaf-theoretic versions of that theory as developed by M. Goresky and R. MacPherson in Topology 19 (1980), and in Inventiones Mathematicae 72 (1983). Some familiarity with algebraic topology and sheaf theory is assumed. This second volume introduces the concept of shemes, reviews some commutative algebra and introduces projective schemes. The finiteness theorem for coherent sheaves is proved, here again the techniques of homological algebra and sheaf cohomology are needed. In the last two chapters, projective curves over an arbitrary ground field are discussed, the theory of Jacobians is developed, and the existence of the Picard scheme is proved. Finally, the author gives some outlook into further developments- for instance étale cohomology- and states some fundamental theorems. This book describes and summarizes past work in important areas of combinatorics and computation, as well as gives directions for researchers working in these areas in the 21st century. It contains primarily survey papers and presents original research by Peter Fishburn, Jim Ho Kwak, Jaeun Lee, K H Kim, F W Roush and Susan Williams. The papers deal with some of the most exciting and promising developments in the areas of coding theory in relation to number theory, lattice theory and its applications, graph theory and its applications, topological techniques in combinatorics, symbolic dynamics and mathematical social science. Contents:Monte-Carlo and Quasi-Monte-Carlo Methods for Numerical Integration (H Faure)Theoretical Approaches to Judgement and Choice (P Fishburn)Combinatorial Aspects of Mathematical Social Science (K H Kim & F W Roush)Twelve Views of Matroid Theory (J P S Kung)Enumeration of Graph Coverings, Surface Branched Coverings and Related Group Theory (J H Kwak &

J Lee)An Overview of the Poset of Irreducibles (G Markowsky)Number Theory and Public-Key Cryptography (D Pointcheval)Some Applications of Graph Theory (F Roberts)Duality and Its Consequences for Ordered Cohomology of Finite Type Subshifts (K H Kim et al.)Simple Maximum Likelihood Methods for the Optical Mapping Problem (V Dancík & M S Waterman) Readership: Researchers, graduate students and advanced undergraduates in combinatorics and computational mathematics. Keywords:Combinatorics;Computation;Coding Theory;Number Theory;Lattice Theory;Graph Theory;Topological Techniques;Symbolic Dynamics;Mathematical Social Science The book consists of articles at the frontier of current research in Algebraic Topology. It presents recent results by top notch experts, and is intended primarily for researchers and graduate students working in the field of algebraic topology. Included is an important article by Cohen, Johnes and Yan on the homology of the space of smooth loops on a manifold M, endowed with the Chas-Sullivan intersection product, as well as an article by Goerss, Henn and Mahowald on stable homotopy groups of spheres, which uses the cutting edge technology of "topological modular forms". A self-contained introduction to the cohomology theory of Lie groups and some of its applications in physics. Number theory currently has at least three different perspectives on non-abelian phenomena: the Langlands programme, non-commutative Iwasawa theory and anabelian geometry. In the second half of 2009, experts from each of these three areas gathered at the Isaac Newton Institute in Cambridge to explain the latest advances in their research and to investigate possible avenues of future investigation and collaboration. For those in attendance, the overwhelming impression was that number theory is going through a tumultuous period of theory-building and experimentation analogous to the late 19th century, when many different special reciprocity laws of abelian class field theory were formulated before knowledge of the Artin–Takagi theory. Non-abelian Fundamental Groups and Iwasawa Theory presents the state of the art in theorems, conjectures and speculations that point the way towards a new synthesis, an as-yet-undiscovered unified theory of non-abelian arithmetic geometry.

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