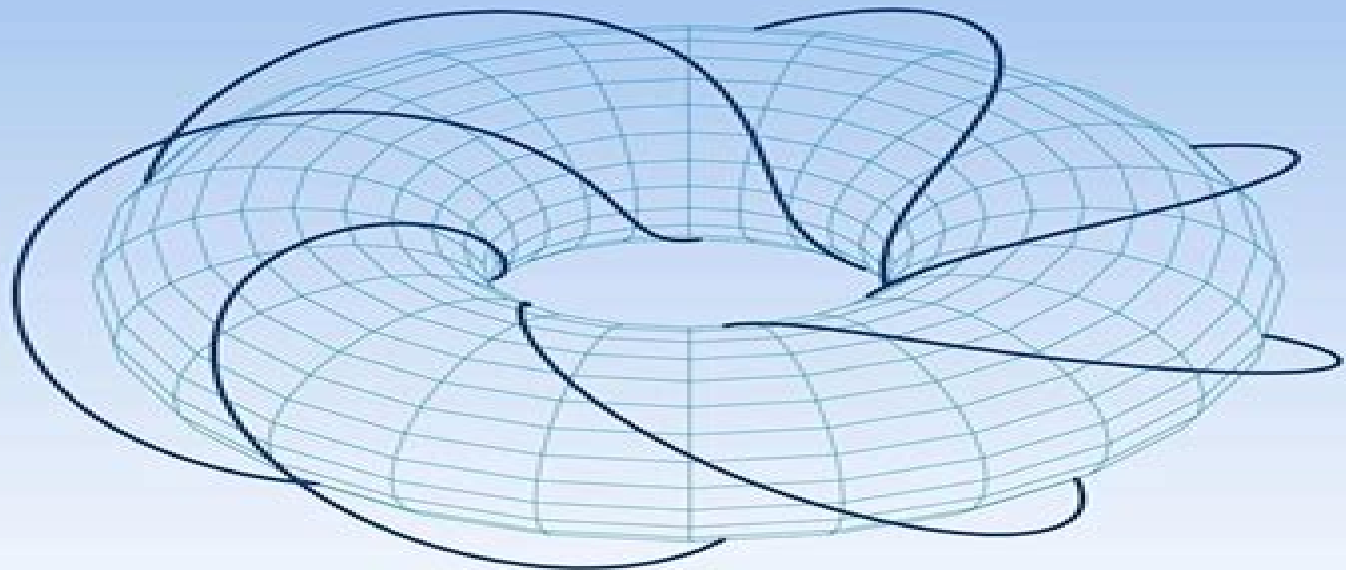# Nikolai Saveliev

LECTURES ON THE TOPOLOGY OF 3-MANIFOLDS

AN INTRODUCTION TO THE CASSON INVARIANT

2ND EDITION

Lectures On Three Manifold Topology

Klaus Johannson

Lectures On Three Manifold Topology:

Lectures on Three-Manifold Topology William H. Jaco,1980-12-31 This manuscript is a detailed presentation of the ten lectures given by the author at the NSF Regional Conference on Three Manifold Topology held October 1977 at Virginia Polytechnic Institute and State University The purpose of the conference was to present the current state of affairs in three manifold topology and to integrate the classical results with the many recent advances and new directions **Lectures on Three-manifold Topology** William Jaco,1977 **Lectures on the Topology of 3-Manifolds** Nikolai Saveliev,2012-10-25 No detailed description available for Lectures on the Topology of 3 Manifolds **Lectures on the Topology of 3-Manifolds** Nikolai Saveliev,2011-12-23 Progress in low dimensional topology has been very quick in the last three decades leading to the solutions of many difficult problems Among the earlier highlights of this period was Casson s invariant that was instrumental in proving the vanishing of the Rohlin invariant of homotopy 3 spheres The proof of the three dimensional Poincar conjecture has rendered this application moot but hardly made Casson s contribution less relevant in fact a lot of modern day topology including a multitude of Floer homology theories can be traced back to his invariant The principal goal of this book now in its second revised edition remains providing an introduction to the low dimensional topology and Casson s theory it also reaches out when appropriate to more recent research topics The book covers some classical material such as Heegaard splittings Dehn surgery and invariants of knots and links It then proceeds through the Kirby calculus and Rohlin s theorem to Casson s invariant and its applications and concludes with a brief overview of recent developments The book will be accessible to graduate students in mathematics and theoretical physics familiar with some elementary algebraic and differential topology including the fundamental group basic homology theory transversality and Poincar duality on manifolds

Lectures on Hilbert Cube Manifolds Thomas A. Chapman,1976 The goal of these lectures is to present an introduction to the geometric topology of the Hilbert cube Q and separable metric manifolds modeled on Q which are called here Hilbert cube manifolds or Q manifolds In the past ten years there has been a great deal of research on Q and Q manifolds which is scattered throughout several papers in the literature The author presents here a self contained treatment of only a few of these results in the hope that it will stimulate further interest in this area No new material is presented here and no attempt has been made to be complete For example the author has omitted the important theorem of Schori West stating that the hyperspace of closed subsets of 0 1 is homeomorphic to Q In an appendix prepared independently by R D Anderson D W Curtis R Schori and G Kozlowski there is a list of problems which are of current interest This includes problems on Q manifolds as well as manifolds modeled on various linear spaces The reader is referred to this for a much broader perspective of the field In the first four chapters the basic tools which are needed in all of the remaining chapters are presented Beyond this there seem to be at least two possible courses of action The reader who is interested only in the triangulation and classification of Q manifolds should read straight through avoiding only Chapter VI In particular the

topological invariance of Whitehead torsion appears in Section 38 The reader who is interested in R D Edwards recent proof that every ANR is a Q manifold factor should read the first four chapters and then with the single exception of 26 1 skip over to Chapters XIII and XIV **Topology and Combinatorics of 3-Manifolds** Klaus Johannson,2006-11-14 This book is a study of combinatorial structures of 3 mani folds especially Haken 3 manifolds Specifically it is concerned with Heegard graphs in Haken 3 manifolds i e with graphs whose complements have a free fundamental group These graphs always exist They fix not only a combinatorial stucture but also a presentation for the fundamental group of the underlying 3 manifold The starting point of the book is the result that the intersection of Heegard graphs with incompressible surfaces or hierarchies of such surfaces is very rigid A number of finiteness results lead up to a ri gidity theorem for Heegard graphs The book is intended for graduate students and researchers in low dimensional topolo gy as well as combinatorial theory It is self contained and requires only a basic knowledge of the theory of 3 manifolds **Topology '90** Boris N. Apanasov,Walter D. Neumann,Alan W. Reid,Laurent Siebenmann,2011-10-13 No detailed description available for Topology 90 **Imbeddings of Three-Manifold Groups** Francisco González-Acuña,Wilbur Carrington Whitten,1992 This paper deals with the two broad questions of how 3 manifold groups imbed in one another and how such imbeddings relate to any corresponding lowercase Greek Pi1 injective maps In particular we are interested in 1 determining which 3 manifold groups are no cohopfian that is which 3 manifold groups imbed properly in themselves 2 determining the knot subgroups of a knot group and 3 determining when surgery on a knot italic K yields a lens or lens like space and the relationship of such a surgery to the knot subgroup structure of lowercase Greek Pi1 italic S3 italic K Our work requires the formulation of a deformation theorem for lowercase Greek Pi1 injective maps between certain kinds of Haken manifolds and the development of some algebraic tools

Geometrisation of 3-manifolds ,2010 The Geometrisation Conjecture was proposed by William Thurston in the mid 1970s in order to classify compact 3 manifolds by means of a canonical decomposition along essential embedded surfaces into pieces that possess geometric structures It contains the famous Poincar Conjecture as a special case In 2002 Grigory Perelman announced a proof of the Geometrisation Conjecture based on Richard Hamilton s Ricci flow approach and presented it in a series of three celebrated arXiv preprints Since then there has been an ongoing effort to understand Perelman s work by giving more detailed and accessible presentations of his ideas or alternative arguments for various parts of the proof This book is a contribution to this endeavour Its two main innovations are first a simplified version of Perelman s Ricci flow with surgery which is called Ricci flow with bubbling off and secondly a completely different and original approach to the last step of the proof In addition special effort has been made to simplify and streamline the overall structure of the argument and make the various parts independent of one another A complete proof of the Geometrisation Conjecture is given modulo pre Perelman results on Ricci flow Perelman s results on the functional and solutions as well as the Colding Minicozzi extinction paper The book can be read by anyone already familiar with these results or willing to accept them as black boxes

The structure of the proof is presented in a lengthy introduction which does not require knowledge of geometric analysis The bulk of the proof is the existence theorem for Ricci flow with bubbling off which is treated in parts I and II Part III deals with the long time behaviour of Ricci flow with bubbling off Part IV finishes the proof of the Geometrisation Conjecture

Foliations and the Geometry of 3-Manifolds Danny Calegari,2007-05-17 This unique reference aimed at research topologists gives an exposition of the pseudo Anosov theory of foliations of 3 manifolds This theory generalizes Thurston s theory of surface automorphisms and reveals an intimate connection between dynamics geometry and topology in 3 dimensions Significant themes returned to throughout the text include the importance of geometry especially the hyperbolic geometry of surfaces the importance of monotonicity especially in1 dimensional and co dimensional dynamics and combinatorial approximation using finite combinatorical objects such as train tracks branched surfaces and hierarchies to carry more complicated continuous objects **Lectures on Symplectic Manifolds** Alan Weinstein,1977 Features notes with sections containing a description of some of the basic constructions and results on symplectic manifolds and lagrangian submanifolds This title also includes sections dealing with various aspects of the quantization problem as wel as those giving a feedback of ideas from quantization theory into symplectic geometry itslef *Index Theory, Coarse Geometry, and Topology of Manifolds* John Roe,1996 Lecture notes from the conference held Aug 1995 in Boulder Colo **Single Orbit Dynamics** Benjamin Weiss,2000 This book presents the expanded notes from ten lectures given by the author at the NSF CBMS conference held at California State University Bakersfield The author describes what he calls single orbit dynamics which is an approach to the analysis of dynamical systems via the study of single orbits rather than the study of a system as a whole He presents single orbit interpretations of several areas of topological dynamics and ergodic theory and some new applications of dynamics to graph theory In the concluding lectures single orbit approaches to generalizations of the Shannon Breiman McMillan theorem and related problems of compression and universal coding are presented Complete proofs and illuminating discussions are included and references for further study are given Some of the material appears here for the first time in print **Kleinian Groups and Hyperbolic 3-Manifolds** Y. Komori,V. Markovic,C. Series,2003-11-10 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development with many old problems and conjectures close to resolution This volume proceedings of the Warwick workshop in September 2001 contains expositions of many of these breakthroughs including Minsky s lectures on the first half of the proof of the Ending Lamination Conjecture the Bers Density Conjecture by Brock and Bromberg the Tameness Conjecture by Kleineidam and Souto the state of the art in cone manifolds by Hodgson and Kerckhoff and the counter example to Thurston s K 2 conjecture by Epstein Marden and Markovic It also contains J rgensen s famous paper On pairs of once punctured tori in print for the first time The excellent collection of papers here will appeal to graduate students who will find much here to inspire them and established researchers who will find this valuable as a snapshot of current research **Equivariant Homotopy and**

Cohomology Theory J. Peter May,M. Cole,1996 This volume introduces equivariant homotopy homology and cohomology theory along with various related topics in modern algebraic topology It explains the main ideas behind some of the most striking recent advances in the subject The works begins with a development of the equivariant algebraic topology of spaces culminating in a discussion of the Sullivan conjecture that emphasizes its relationship with classical Smith theory The book then introduces equivariant stable homotopy theory the equivariant stable homotopy category and the most important examples of equivariant cohomology theories The basic machinery that is needed to make serious use of equivariant stable homotopy theory is presented next along with discussions of the Segal conjecture and generalized Tate cohomology Finally the book gives an introduction to brave new algebra the study of point set level algebraic structures on spectra and its equivariant applications Emphasis is placed on equivariant complex cobordism and related results on that topic are presented in detail   *Topics in the Homological Theory of Modules Over Commutative Rings* Melvin Hochster,1975-12-31 This volume contains expository lectures by Melvin Hochster from the CBMS Regional Conference in Mathematics held at the University of Nebraska June 1974 The lectures deal mainly with recent developments and still open questions in the homological theory of modules over commutative usually Noetherian rings A good deal of attention is given to the role big Cohen Macaulay modules play in clearing up some of the open questions A modest knowledge of commutative rings and familiarity with the long exact sequences for Tor and Ext should suffice as a background for the reader   **Euler Products and Eisenstein Series** Gorō Shimura,1997 This volume has three chief objectives 1 the determination of local Euler factors on classical groups in an explicit rational form 2 Euler products and Eisenstein series on a unitary group of an arbitrary signature and 3 a class number formula for a totally definite hermitian form Though these are new results that have never before been published Shimura starts with a quite general setting He includes many topics of an expository nature so that the book can be viewed as an introduction to the theory of automorphic forms of several variables Hecke theory in particular Eventually the exposition is specialized to unitary groups but they are treated as a model case so that the reader can easily formulate the corresponding facts for other groups There are various facts on algebraic groups and their localizations that are standard but were proved in some old papers or just called well known In this book the reader will find the proofs of many of them as well as systematic expositions of the topics This is the first book in which the Hecke theory of a general nonsplit classical group is treated The book is practically self contained except that familiarity with algebraic number theory is assumed   Introduction to Some Methods of Algebraic K-Theory Hyman Bass,1974-12-31   *Spectral Graph Theory* Fan R. K. Chung,1997 This text discusses spectral graph theory   Introduction to Intersection Theory in Algebraic Geometry William Fulton,1984 Introduces some of the main ideas of modern intersection theory traces their origins in classical geometry and sketches a few typical applications Suitable for graduate students in mathematics this book describes the construction and computation of intersection products by means of the geometry of normal cones

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