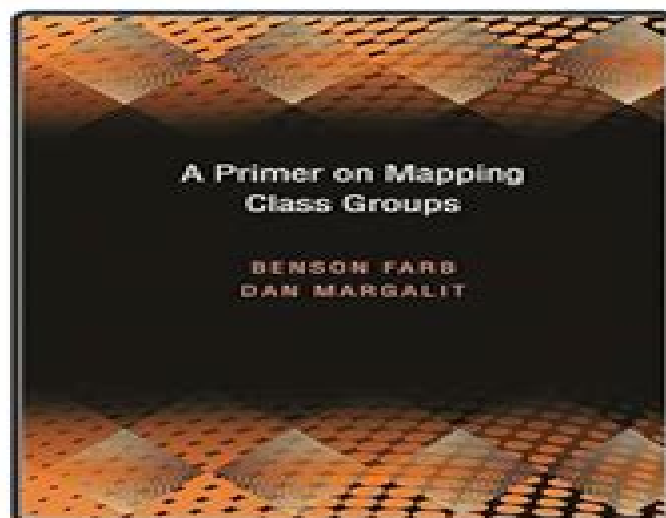


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A Primer on Mapping Class Groups Benson Farb, Dan Margalit, 2011-09-26 The study of the mapping class group $\text{Mod } S$ is a classical topic that is experiencing a renaissance. It lies at the juncture of geometry, topology, and group theory. This book explains as many important theorems, examples, and techniques as possible quickly and directly while at the same time giving full details and keeping the text nearly self-contained. The book is suitable for graduate students. A Primer on Mapping Class Groups begins by explaining the main group-theoretical properties of $\text{Mod } S$ from finite generation by Dehn twists and low-dimensional homology to the Dehn-Nielsen-Baer theorem. Along the way, central objects and tools are introduced, such as the Birman exact sequence, the complex of curves, the braid group, the symplectic representation, and the Torelli group. The book then introduces Teichmüller space and its geometry and uses the action of $\text{Mod } S$ on it to prove the Nielsen-Thurston classification of surface homeomorphisms. Topics include the topology of the moduli space of Riemann surfaces, the connection with surface bundles, pseudo-Anosov theory, and Thurston's approach to the classification. **Topological**

Quantum Steven H. Simon, 2023-10-05 At the intersection of physics, mathematics, and computer science, an exciting new field of study has formed, known as Topological Quantum. This research field examines the deep connections between the theory of knots, special types of subatomic particles known as anyons, certain phases of matter, and quantum computation. This book elucidates this nexus, drawing in topics ranging from quantum gravity to topology to experimental condensed-matter physics. Topological quantum has increasingly been a focus point in the fields of condensed-matter physics and quantum information over the last few decades, and the forefront of research now builds on the basic ideas presented in this book. The material is presented in a down-to-earth and entertaining way that is far less abstract than most of what is in the literature. While introducing the crucial concepts and placing them in context, the subject is presented without resort to the highly mathematical category theory that underlies the field. Requiring only an elementary background in quantum mechanics, this book is appropriate for all readers, from advanced undergraduates to the professional practitioner. This book will be of interest to mathematicians and computer scientists as well as physicists working on a wide range of topics. Those interested in working in these fields will find this book to be an invaluable introduction as well as a crucial reference. **Quandles and**

Topological Pairs Takefumi Nosaka, 2017-11-20 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 follows: 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 K_2 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

Problems on Mapping Class Groups and Related Topics Benson Farb, 2006-09-12 The appearance of mapping class groups in mathematics is ubiquitous The book presents 23 papers containing problems about mapping class groups the moduli space of Riemann surfaces Teichmüller geometry and related areas Each paper focusses completely on open problems and directions The problems range in scope from specific computations to broad programs The goal is to have a rich source of problems which have been formulated explicitly and accessibly The book is divided into four parts Part I contains problems on the combinatorial and co homological group theoretic aspects of mapping class groups and the way in which these relate to problems in geometry and topology Part II concentrates on connections with classification problems in 3 manifold theory the theory of symplectic 4 manifolds and algebraic geometry A wide variety of problems from understanding billiard trajectories to the classification of Kleinian groups can be reduced to differential and synthetic geometry problems about moduli space Such problems and connections are discussed in Part III Mapping class groups are related both concretely and philosophically to a number of other groups such as braid groups lattices in semisimple Lie groups and automorphism groups of free groups Part IV concentrates on problems surrounding these relationships This book should be of interest to anyone studying geometry topology algebraic geometry or infinite groups It is meant to provide inspiration for everyone from graduate students to senior researchers

A User's Guide to the Mapping Class Group: Once Punctured Surfaces Mathematical Sciences Research Institute (Berkeley, Calif.), Lee Mosher, 1994

The Mapping Class Group from the Viewpoint of Measure Equivalence Theory Yoshikata Kida, 2008 The author obtains some classification result for the mapping class groups of compact orientable surfaces in terms of measure equivalence In particular the mapping class groups of different closed surfaces cannot be measure equivalent Moreover the author gives various examples of discrete groups which are not measure equivalent to the mapping class groups In the course of the proof the author investigates amenability in a measurable sense for the actions of the mapping class group on the boundary at infinity of the curve complex and on the Thurston boundary and using this investigation proves that the mapping class group of a compact orientable surface is exact

A Note on the Normal Subgroups of Mapping Class Groups Mathematical Sciences Research Institute (Berkeley,

Calif.), D. D. Long, 1985 **Unit Tangent Bundle Subgroups of the Mapping Class Groups** Mathematical Sciences Research Institute (Berkeley, Calif.), Geoffrey Mess, 1990 Mapping Class Groups, Graphs and Symplectic Geometry S. P. Humphries, University College of North Wales, 1983 **On the Large-scale Geometry of Mapping Class Groups** Harry Petyt, 2022 *Finite groups of mapping classes of surfaces* H. Zieschang, 1981 *The Mapping Class Group from the Viewpoint of Measure Equivalence Theory*. Yoshikata Kida Yoshikata Kida, 2014-09-11 The author obtains some classification result for the mapping class groups of compact orientable surfaces in terms of measure equivalence In particular the mapping class groups of different closed surfaces cannot be measure equivalent *Class Groups and Picard Groups of Group Rings and Orders* Irving Reiner, 1976-12-31 The aim of the lectures is to provide an introduction to recent developments in the theory of class groups and Picard groups The techniques employed come from the three main areas algebraic number theory representation theory of algebras and orders and algebraic K theory *Complexes of Curves and Mapping Class Groups* Mustafa Korkmaz, 1996 *Continuous Families of Representations of Mapping Class Groups* Michael Colin Fitzpatrick, University of Iowa. Department of Mathematics, 2014 The study of mapping class groups began in the 1920s with Max Dehn and Jakob Nielsen It was about this time that topology was just being developed so mapping class groups were of immediate interest being invariants of topological spaces The works of Dehn and Nielsen were continued by William Harvey in the 1960s and 70s leading to the development of the curve complex an important construction still very relevant to mathematics today William Thurston is another important name in this area since he was able to completely classify homeomorphisms of surfaces in 1976 leading to the famous Nielsen Thurston Classification Theorem Representations were first studied by Carl Gauss in the early 1800s and then explored more thoroughly by Ferdinand Frobenius and Richard Dedekind among others at the end of that century Representation theory has since grown into an extremely important and active area of mathematics today because of its widespread applications to other areas of mathematics and even to other subject areas like physics Quantum group theory is the youngest area in which this thesis has its roots This area was formalized and studied extensively for the first time in the 1980s by such mathematicians as Vladimir Drinfeld Michio Jimbo and Nicolai Reshetikhin and immediately found applications in mathematics and theoretical physics Like representation theory the study of quantum groups is currently a highly active area of mathematics due to its widespread applications across the mathematical spectrum In this paper I will present two different methods of constructing projective representations of mapping class groups of surfaces I will then prove some interesting results concerning each of these methods *Action Dimension of Mapping Class Groups* Zrinka Despotović, 2006 *The Mapping Class Group of a Rotation Domain* David M. Harris, 1995 **Mapping class groups and function spaces** C. F. Bödigheimer, F. R. Cohen, M. D. Peim, Sonderforschungsbereich 170 Geometrie und Analysis. Mathematisches Institut. Universität Göttingen, 1989 *Prym Representations of Mapping Class Groups* Eduard J. N. Looijenga, 1993 **Representation of Mapping Class Groups Via**

Topological Constructions Ryan David Budney, 2002

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