

<<变换群与曲线模空间>>

图书基本信息

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内容概要

Transformation groups have played a fundamental role in many areas of mathematics such as differential geometry, geometric topology, algebraic topology, algebraic geometry, number theory. One of the basic reasons for their importance is that symmetries are described by groups (or rather group actions). Quotients of smooth manifolds by group actions are usually not smooth manifolds. On the other hand, if the actions of the groups are proper, then the quotients are orbifolds. An important example is given by the action of the mapping class groups on the Teichmüller spaces, and the quotients give the moduli spaces of Riemann surfaces (or algebraic curves) and are orbifolds. This book consists of expanded lecture notes of two summer schools Transformation Groups and Orbifolds and Geometry of Teichmüller Spaces and Moduli Spaces of Curves in 2008 and will be a valuable source for people to learn transformation groups, orbifolds, Teichmüller spaces, mapping class groups, moduli spaces of curves and related topics.

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书籍目录

Lectures on Orbifolds and Group Cohomology Alejandro Adem and Michele Klaus 1 Introduction 2 Classical orbifolds 3 Examples of orbifolds 4 Orbifolds and manifolds 5 Orbifolds and groupoids 6 The orbifold Euler characteristic and K-theory 7 Stringy products in K-theory 8 Twisted version References

Lectures on the Mapping Class Group of a Surface Thomas Kwok-Keung Au, Feng Luo and Tian Yang Introduction 1 Mapping class group 2 Dehn-Lickorish Theorem 3 Hyperbolic plane and hyperbolic surfaces 4 Quasi-isometry and large scale geometry 5 Dehn-Nielsen Theorem References

Lectures on Orbifolds and Reflection Groups Michael W. Davis 1 Transformation groups and orbifolds 2 2-dimensional orbifolds 3 Reflection groups 4 3-dimensional hyperbolic reflection groups 5 Aspherical orbifolds References

Lectures on Moduli Spaces of Elliptic Curves Richard Hain 1 Introduction to elliptic curves and the moduli problem 2 Families of elliptic curves and the universal curve 3 The orbifold $M_{1,1}$ 4 The orbifold $\Gamma(2) \backslash \mathbb{H}$ and modular forms 5 Cubic curves and the universal curve $\Gamma(2) \rightarrow \Gamma(2,1)$ 6 The Picard groups of $M_{1,1}$ and $\Gamma(2,1)$ 7 The algebraic topology of $\Gamma(2,1)$ 8 Concluding remarks Appendix A Background on Riemann surfaces Appendix B A very brief introduction to stacks References

An Invitation to the Local Structures of Moduli of Genus One Stable Maps Yi HU 1 Introduction 2 The structures of the direct image sheaf 3 Extensions of sections on the central fiber References

Lectures on the ELSV Formula Chiu-Chu Melissa Liu 1 Introduction 2 Hurwitz numbers and Hodge integrals 3 Equivariant cohomology and localization 4 Proof of the ELSV formula by virtual localization References

Formulae of One-partition and Two-partition Hodge Integrals Chiu-Chu Melissa Liu 1 Introduction 2 The Marino-Vafa formula of one-partition Hodge integrals 3 Applications of the Marifio-Vafa formula 4 Three approaches to the Marino-Vafa formula 5 Proof of Proposition 4.3 6 Generalization to the two-partition case References

Lectures on Elements of Transformation Groups and Orbifolds Zhi Lu 1 Topological groups and Lie groups 2 G-actions (or transformation groups) on topological spaces 3 Orbifolds 4 Homogeneous spaces and orbit types 5 Twisted product and slice 6 Equivariant cohomology 7 Davis-Januszkiewicz theory References

The Action of the Mapping Class Group on Representation Varieties Richard A. Wentworth 1 Introduction 2 Action of $Out(\pi)$ on representation varieties 3 Action on the cohomology of the space of fiat unitary connections 4 Action on the cohomology of the $SL(2, \mathbb{C})$ character varietyReferences

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