<<弦拓扑与环同调>>

图书基本信息

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内容概要

This book explores string topology,
Hochschild and cyclic homology, assembling material from a wide scattering of scholarly sources in a single practical volume. The first part offers a thorough and elegant exposition of various approaches to string topology and the ChasSullivan loop product. The second gives a complete and clear construction of an algebraic model for computing topological cyclic homology.

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章节摘录

版权页：插图：Thebiholomorphic maps are part of the data, which in particular means that choosinga different biholomorphic map for the same hole is likely to change the point inthe moduli space. The more precise nonoverlapping condition is that the closeddisks in the inputs do not intersect pairwise and the closed disks in the outputs donot intersect pairwise, however, an input and an output disk may have commonboundary, but are still not allowed to intersect at an interior point. This techni-cality brings in the identity morphisms to the PROP, but does not create singularRiemann surfaces by composition. The composition of morphisms in this PROPis given by sewing the Riemann surfaces along the boundaries, using the equationzw = 1 in the holomorphic parameters coming from the standard one on the unitdisk. The tensor product of morphisms is the disjoint union. This PROP plays acrucial role in Conformal Field Theory, as we will see now.

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