

Moduli Spaces Of Riemann Surfaces Iaspark City Mathematics Series

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In mathematics, particularly in complex analysis, a Riemann surface is a one-dimensional complex manifold. These surfaces were first studied by and are named after Bernhard Riemann. Riemann surfaces can be thought of as deformed versions of the complex plane: locally near every point they look like patches of the complex plane, but the global topology can be quite different. For example, they can look like a sphere or a torus or several sheets glued together. The main interest in Riemann surface

Riemann surface - Wikipedia

MODULI SPACES OF RIEMANN SURFACES 5 2.1. Teichmüller space. Fix an oriented closed surface S of genus g ; this surface is only a topological surface (it isn't a Riemann surface), and it is sometimes called the reference surface. Teichmüller space T_g is defined to be the space pairs $(X; \sigma)$, where X is a Riemann surface

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Moduli of a Riemann surface. Numerical characteristics (parameters) which are one and the same for all conformally-equivalent Riemann surfaces, and in their totality characterize the conformal equivalence class of a given Riemann surface. Here two Riemann surfaces $R_{\{1\}}$ and $R_{\{2\}}$ are called conformally equivalent if there is a conformal mapping from $R_{\{1\}}$ onto $R_{\{2\}}$.

Moduli of a Riemann surface - Encyclopedia of Mathematics

Riemann's moduli space M_g of Riemann surfaces is obtained as the quotient of Teichmüller space by the mapping class group. Teichmüller space T_g is known to be a complex manifold of complex dimension $3g-3$, and the cotangent space at μ is identified with $QD(\mu)$, the space of holomorphic quadratic differentials.

the Moduli Space of Riemann Surfaces

We construct a moduli space for Riemann surfaces that is universal in the sense that it represents compact Riemann surfaces of any finite genus. This moduli space is a connected complex subspace of an infinite dimensional complex space, and is stratified according to genus such that each stratum has a compact closure, and it carries a metric and a measure that induce a Riemannian metric and a finite volume measure on each stratum.

Universal moduli spaces of Riemann surfaces - ScienceDirect

Generally, a moduli space is defined as the collection of isomorphism classes of various types of objects. There are many types of moduli spaces. However, this paper contains an overview of two...

A Review of Moduli Spaces of Riemann Surfaces and Curves ...

Example: McMullen proved that the moduli spaces of Riemann surfaces are Kähler hyperbolic, by using his own metric which he obtained by perturbing the WP metric. This means bounded geometry and the Kähler form on the Teichmüller space is of the form

Good Geometry of the Moduli Spaces of Riemann Surfaces

Title: Moduli of Riemann Surfaces, Transcendental Aspects. Authors: Richard Hain. Download PDF Abstract: This is an informal set of lecture notes on moduli spaces of curves based on a set of lectures given at the ICTP last summer. It begins at an elementary level and discusses the genus 1 case in detail. The notes then give an informal ...

[math/0003144] Moduli of Riemann Surfaces, Transcendental ...

Other articles where Riemann surface is discussed: analysis: Analysis in higher dimensions: \mathbb{C} was the concept of a Riemann surface. The complex numbers can be viewed as a plane (see Fluid flow), so a function of a complex variable can be viewed as a function on the plane. Riemann's insight was that other surfaces can also be provided with complex coordinates, and certain

Riemann surface | mathematics | Britannica

Mirzakhani made several contributions to the theory of moduli spaces of Riemann surfaces. Mirzakhani's early work solved the problem of counting simple closed geodesics on hyperbolic Riemann surfaces by finding a relationship to volume calculations on moduli space. Geodesics are the natural generalization of the idea of a "straight line" to "curved spaces".

Maryam Mirzakhani - Wikipedia

Benson Farb, Richard Hain, Eduard Looijenga Mapping class groups and moduli spaces of

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Riemann surfaces were the topics of the Graduate Summer School at the 2011 IAS/Park City Mathematics Institute. This book presents the nine different lecture series comprising the summer school, covering a selection of topics of current interest.

Moduli Spaces of Riemann Surfaces | Benson Farb, Richard ...

Introduction to moduli spaces of Riemann surfaces and tropical curves (2017) Riemann surfaces and algebraic curves (2016) Uniformization of Riemann surfaces (2016) An introduction to compactness results in symplectic field theory (2014) A course in complex ...

Riemann, Surfaces de - BnF

The moduli space $|\mathbb{M}_g|$ of Riemann surfaces, endowed with the Weil–Petersson metric, is defined as $|\mathbb{M}_g| = \text{Teich}(S_g) / \text{Mod}(S_g)$. The following proposition has been proved in a lot of literature.

On the Weil–Petersson Curvature of the Moduli Space of ...

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Moduli Spaces of Riemann Surfaces (Ias/Park City ...

In algebraic geometry, a moduli space of (algebraic) curves is a geometric space (typically a scheme or an algebraic stack) whose points represent isomorphism classes of algebraic curves. It is thus a special case of a moduli space. Depending on the restrictions applied to the classes of algebraic curves considered, the corresponding moduli problem and the moduli space is different.

Moduli of algebraic curves - Wikipedia

Teichmüller theory and moduli of Riemann surfaces. This is a sequel to my earlier question asking for references for Teichmüller theory and moduli spaces of Riemann surfaces. In this connection, I have read Chapter 11 of the book Primer of mapping class groups by Dan Margalit and Benson Farb. So I have understood that the moduli space of a Riemann surface is the quotient of the Teichmüller space by the mapping class group, the action is properly discontinuous, the quotient is an orbifold ...

Teichmüller theory and moduli of Riemann surfaces

Abstract: The moduli space of Riemann surfaces of fixed genus is one of the hubs of modern mathematics and physics.

Dynamics, geometry, and the moduli space of Riemann surfaces

Moduli space of curves Problem Classify compact Riemann surfaces A geometric solution is Moduli spaces M_g Each point of M_g is a Riemann surface Studying M_g can tell us things of the geometry of the Riemann surfaces. 12/24

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