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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

For example, the conformal classes of compact Riemann surfaces of topological genus $g > 1$ are characterized by $6g - 6$ real moduli; a Riemann surface of torus type $(g = 1)$ is characterized by 2 moduli; an n -connected plane domain, considered as a Riemann surface with boundary, is characterized by $3n - 6$ moduli for $n \geq 3$.

Moduli of a Riemann surface —Encyclopedia of Mathematics

In Bernhard Riemann ...real surface—now known as a Riemann surface—spread out over the plane. In 1851 and in his more widely available paper of 1857, Riemann showed how such surfaces can be classified by a number, later called the genus, that is determined by the maximal number of closed curves that can be...

Riemann surface | mathematics | Britannica

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The space of all Riemann surfaces (the so-called moduli space) plays an important role in algebraic geometry and its applications to quantum field theory.

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Moduli Of Riemann Surfaces Real Page 5/29. Bookmark File PDF Moduli Of Riemann Surfaces Real Algebraic Curves And Their Superanalogs Translations Of Mathematical Monographs The complex plane C is the most basic Riemann surface. The map $f(z) = z$ (the identity map) defines a chart for C, and

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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 a point is identified with H⁰(C, K²), the space of holomorphic quadratic differentials.

the Moduli Space of Riemann Surfaces

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History. Moduli spaces for Riemann surfaces and related Fuchsian groups have been studied since the work of Bernhard Riemann, who knew that $2g$ parameters were needed to describe the variations of complex structures on a surface of genus g . The early study of Teichmüller space, in the late nineteenth–early twentieth century, was geometric and founded on the interpretation of Riemann ...

Teichmüller space —Wikipedia

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INTRODUCTION : #1 Moduli Spaces Of Riemann Surfaces Publish By James Patterson, Moduli Spaces Of Riemann Surfaces mapping class groups and moduli spaces of 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

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A Riemann surface is a topological space with an atlas of charts to the complex plane C whose transition functions are biholomorphisms. Any open subset of the Riemann sphere P¹ is Riemann surface, as is the complex torus C/Z[i].

MODULI SPACES OF RIEMANN SURFACES

The space of all Riemann surfaces (the so-called moduli space) plays an important role in algebraic geometry and its applications to quantum field theory. The present book is devoted to the study of topological properties of this space and of similar moduli spaces, such as the space of real algebraic curves, the space of mappings, and also superanalogs of all these spaces.