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Challenge: An
Introduction to
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 $f(z)=\sqrt{z}$ *MH2801*

Riemann Surfaces
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topological invariants
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*Riemann surfaces -
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Mod-04 Lec-18

**Classifying Complex
Cylinders Riemann
Surfaces**

Visualization of
Riemann Surfaces

*Moduli Spaces Of
Riemann Surfaces*

In mathematics,
particularly in complex
analysis, a Riemann
surface is a one-

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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

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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*

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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, σ) , 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

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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
Page 16/39

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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 γ is identified with

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QD(?), 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

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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.

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*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

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

Series
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

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metric. This means bounded geometry and the Kähler form on the Teichmüller space is of the form

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Good Geometry of the Moduli Spaces of Riemann Surfaces

Title: Moduli of Riemann Surfaces, Transcendental Aspects. Authors: Richard Hain.

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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 ...

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[math/0003144]

*Moduli of Riemann
Surfaces,*

Transcendental ...

Other articles where
Riemann surface is
discussed: analysis:
Analysis in higher
dimensions: ...was the
concept of a Riemann
surface. The complex
numbers can be
viewed as a plane

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(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 /*

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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

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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.

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*Moduli Spaces of
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Benson Farb, Richard*

... Mathematics

Introduction to moduli
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surfaces and tropical
curves (2017)

Riemann surfaces
and algebraic curves
(2016) Uniformization
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(2016) An introduction

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to compactness
results in symplectic
field theory (2014) A
course in complex ...

Mathematics

*Riemann, Surfaces de
- BnF*

The moduli space
 $|\mathbb{M}_g|$ of
Riemann surfaces,
endowed with the
Weil–Petersson
metric, is defined as
 $|\mathbb{M}_g| := \text{Teich}($

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$S_g) \setminus \text{Mod}(S_g)$. The following proposition has been proved in a lot of literature.

Series

On the

Weil–Petersson

Curvature of the

Moduli Space of ...

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(IAS/Park City
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by Benson Farb,
Richard Hain, Eduard
Looijenga (ISBN:
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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

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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

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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

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of 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

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of surfaces of fixed genus is one of the hubs of modern mathematics and physics.

Series

Dynamics, geometry, and the moduli space of Riemann surfaces

Moduli space of curves

Problem Classify

compact Riemann

surfaces A geometric

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A 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.

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