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Moduli space of $\mathbb{C}$ -manifolds compact

 The mapping class group acts properly discontinuously on the Teichmuller space and the quotient space

$$\text{Moduli}(S_g) := \frac{\text{Teich}(S_g)}{\text{Mod}(S_g)}$$

$\leftrightarrow$

isometry classes of constant curvature Riemannian metrics on S_g

$\leftrightarrow$

conformal classes of Riemannian metrics on S_g

$\leftrightarrow$

biholomorphism classes of complex structures on S_g

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