

Teichmüller space and moduli space for Riemann surface of infinite type

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To consider a structure of the moduli space for a Riemann surface of infinite type, we introduce a new space, which is called the intermediate Teichmüller space, between the Teichmüller space and the moduli space. The intermediate Teichmüller space lies also between the Teichmüller space and the asymptotic Teichmüller space. Then we investigate a complex structure of the intermediate Teichmüller spaces as well as the metric structure. Moreover, we determine the biholomorphic automorphism group of the intermediate Teichmüller space.