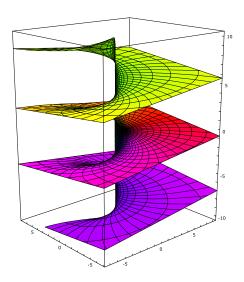
Riemann Surfaces

2h class with problem session (5 CP) Winter term 2018/2019



Brice Loustau¹
TU Darmstadt

Course description: This is an introductory course on the theory of Riemann surfaces. Few prerequisites will be expected of the students: some familiarity with complex analysis and differentiable manifolds. The first stages of the course will consist of a quick review of these essential notions—and others such as surface topology. Our approach to the theory of Riemann surfaces will have an emphasis on differential geometry, starting with complex manifolds. We will nonetheless introduce algebraic curves, line bundles and divisors, and other classical features. Highlights of the course will include the celebrated theorems of Riemann-Roch and Poincaré uniformization.

Classes start: Mon 15.10.2018

Classroom: S215|401

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Web page: https://www.brice.loustau.eu/teaching/RiemannSurfaces2018/