Riemann surface, Tamara Grava, 40 hours

- The main references shall be the course notes
- Prerequisite: complex analysis

Course material

1. Riemann surfaces: definition and examples
2. holomorphic and meromorphic functions on Riemann surface
3. Compact Riemann surface: genus, monodromy, homology
4. Differentials on Riemann surface and integration
    - Riemann bilinear relation
    - Jacobi variety and Abel theorem
    - Divisors and Riemann-Roch theorem
5. Jacobi inversion problem and theta functions.

Exam: You need to solve an exercise and give a seminar on an agreed topic
Starting period: February
Lecture notes: available https://people.sissa.it/~grava/teaching.html