Abelian Varieties

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Timetable: 20 hours. Class meets on Monday from 9:30 to 11:30 and Friday from 14:00 to 16:00. The first lecture will be on Friday, April 29, 2011, Torre Archimede, 2AB/40. For all the other lectures, the Room is 2BC/30.

Course requirements: Basics in Algebraic Topology, Basics in Complex Analysis

Examination and grading: Possible written examination and/or oral exposition

SSD: MAT/03 Geometry

Aim: Introduction to the analytic and/or algebraic theory of Abelian Varieties

Course contents:

- Complex Tori
- Line Bundles on Complex Tori
- Cohomology of Line Bundles and Riemann-Roch Theorem
- Abelian Varieties and their Endomorphisms