

Introduction to Linear Algebraic Groups

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Timetable: 20 hrs. First lecture on March 11, 2015, 09:30 (dates already fixed, see the calendar), Torre Archimede, Room 2BC/30.

Course requirements: Linear algebra

Examination and grading: Completion of a selected set of exercises to be done at the end of the course.

SSD: MAT/02

Aim: We aim to show the main results and tools used for dealing with simple algebraic groups.

Course contents:

- Basic algebraic geometry and properties of algebraic groups
- Abelian algebraic groups
- Borel subgroups
- Connected reductive linear algebraic groups
- Root data and the classification theorem