This course will give an introduction to the classical theory of Lie groups and Lie algebras. Topics to be discussed:

- Topological groups
- Lie groups
- Lie algebras (nilpotent, solvable, semi-simple), enveloping algebras
- Correspondence between Lie groups and Lie algebras

**References**


**Office hours** M 1pm-1:50pm, W 10am-10:50pm or by appointment.

**Grading**

The course assessment will be based on a 20mn presentation of an assigned project. The presentations will be held during the period November 25 – December 6. A preferred choice, as well as a second and a third choice, will need to be sent to me by email by Monday October 28. An abstract of what you plan to do for the presentation will be due on Wednesday November 13. The list of projects will be provided on Wednesday October 23. You may also suggest your own topic, which I will need to approve.