

# Profinite Groups

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**Timetable:** 30 hrs. First lecture on November 5, 2014.

Three lectures per week every Wednesday, Thursday and Friday from 09:30 to 11:30, Torre Archimede, Room 2AB/40.

**Course requirements:**

**Examination and grading:**

**SSD:** MAT/02-03

**Course contents:**

Topological groups, profinite completion,  $p$ -adic integers, pro- $p$ -groups, countable based profinite groups, arithmetical properties of profinite groups, subgroups of finite index in profinite groups, Galois groups of infinite dimensional extension, Haar measure on profinite groups, probabilistic methods in group theory.