

Geometric group theory

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Münster

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The aim of the course is to give an introduction to group theory in general, and to geometric group theory in particular.

Topics: group actions, finitely generated groups, free groups, linear groups, fundamental groups, groups and graphs, group extensions, coproducts of groups, ...
(you may also suggest topics)

Literature:

- Robinson, A course in the theory of groups
 - Lyndon-Schupp, Combinatorial group theory
 - Bogopolski, Introduction to group theory
 - de la Harpe, Topics in geometric group theory
 - Hatcher, Algebraic topology
- + more to come

Prerequisites: You should be familiar
with basic abstract algebra (groups,
rings, fields, linear algebra), point-set
topology (metric spaces, compactness, top. spaces).