

Lecture plan

- Lecture 1: Lie groups and their parabolic subgroups, measured actions, Margulis factor theorem implies normal subgroup theorem;
- Lecture 2: IRS in Lie groups and relation with pmp actions, “Borel density” for IRS, statement of the Stück–Zimmer theorem and application to IRSs in higher rank groups;
- Lectures 3/4: cocycles, factor theorem of Nevo–Zimmer, proof of the Stück–Zimmer theorem;
- Lectures 4/5: Proof of the Nevo–Zimmer factor theorem;
- Lecture 6: IRSs in higher rank p-adic Lie groups.

References

- Robert Zimmer, *Ergodic theory and semisimple groups*, Birkhäuser, [copy here](#).
- Garrett Stück, Robert Zimmer, *Stabilizers for ergodic actions of higher rank semisimple groups*, Annals of math. 1994, [copy here](#).
- Amos Nevo, Robert Zimmer, *A generalization of the intermediate factors theorem*, J. d'analyse math. 2002, [copy here](#).
- Arie Levit, *The Nevo–Zimmer intermediate factors theorem over local fields*, Geom. Ded. 2017, [Arxiv preprint](#).

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