

Geometric group theory

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Abstract:

The reading seminar will follow the book “Office hours with a geometric group theorist”. We will cover a choice of topics from the following list:

3. Groups Acting on Trees
4. Free Groups and Folding
5. The Ping-Pong Lemma
6. Automorphisms of Free Groups
7. Quasi-isometries
8. Dehn Functions
9. Hyperbolic Groups
10. Ends of Groups
11. Asymptotic Dimension
12. Growth of Groups
13. Coxeter Groups
14. Right-Angled Artin Groups
15. Lamplighter Groups
16. Thompson’s Group
17. Mapping Class Groups
18. Braids

References:

M. Clay & D. Margalit (ed.), *Office hours with a Geometric Group Theorist*, Princeton University Press, 2017.