



# Algebra Seminar

## Groups acting on trees

BY

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**Abstract:** After brief a introduction to direct limits of groups and amalgams, I will define certain graph theoretical tools and prove some basic facts about graphs and trees. Then I will state and prove the results about the structure of groups acting on trees by starting with free actions and give some applications of these results. At the end, I will state the Bass-Serre structure theorem, which gives the structure of any group acting on trees.

**Date:** May 14, 2018 Monday

**Time:** 10:40+

**Place:** Mathematics Seminar Room, Bilkent.

Tea and biscuits will be served before the seminar. You are most cordially invited.