

COURSE DESCRIPTION

Course name	Trees, amalgams and SL_2
Course type	Reading course
Supervisor	Piotr Przytycki
ECTS credit allocation	4 – IM PAN Ph. D. program; 6 - recommended for MA programs
Duration	One semester
Number of hours	30
Language	English or Polish, if every participant speaks Polish
Prerequisites	Basic course in geometric group theory
Course content	The course is based on the book of J.P. Serre "Trees". The book is devoted to the Bass-Serre theory which, through its applications of groups with amalgamation and HNN extensions became one of the standard tools in the geometric group theory.
Recommended reading	J.P. Serre „Trees”, Springer-Verlag Berlin Heidelberg New York, 1980
Learning outcomes	Student: -knows Basic notions related to the topic of the course: products with amalgamation, HNN extensions, graphs and trees of groups. -is able to apply trees in solving problems from group theory
Assessment methods and criteria	Lists of exercises and exam
Remarks	