MA386 Jan 3:0

Coxeter Groups

Instructor

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Teaching Assistant

Email:

Department: Mathematics

Course Time:

Lecture venue:

Detailed Course Page:

Announcements

Brief description of the course

Elective. An introduction to the theory of Coxeter groups.

Prerequisites

None, but a familiarity with algebra, linear algebra and finite groups would be helpful

Syllabus

Reflection groups and their generalisations, Coxeter systems, permutation representations, reduced words,

Bruhat order, Kazhdan-Lusztig theory, Chevalley's theorem, Poincare series, root systems, classification of

finite and affine Coxeter groups

Course outcomes

Learn basis of the theory of Coxeter groups

Grading policy

5% â€" Attendance

15% â€" Homeworks

30% â€" Midterm

50% â€" Final

Assignments

Resources