

Special Algebra Seminar

SMALL PRESENTATIONS OF FINITE SIMPLE GROUPS

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We study presentations of a finite simple groups G from a quantitative point of view. Our main result provides somewhat unexpected answers to the following questions: how many relations are needed to define G , and how short can these relations be?

The answers to this questions have many application in computational and asymptotic group theory. They also have cohomological applications and can be used to confirm a conjecture of Holt that $\dim H^2(G, M) \leq C \dim M$ for any simple group G and any G -module M .

Monday, February 13th

3 p.m.

MIT Room 2-136

<http://math.mit.edu/~kedlaya/stage/>