1002-57-231 **Ted Stanford*** (`stanford@nmsu.edu`), Department of Mathematical Sciences, New Mexico State University 3MB, Las Cruces, NM 88003. *Presentations of groups of n-trivial knots.* Preliminary report.

Because knot groups have cyclic abelianizations, their lower central series stabilize after one term and are not useful for providing information about knots. Given a knot K and a positive integer n, it is easy to write a presentation for the group G of K which shows the generators of the commutator subgroup to lie in the nth group of the lower central series of G. However, it is in general not possible to write such a presentation with deficiency 1. The first Alexander ideal of G provides an obstruction, which corresponds to the obstructions in the Alexander polynomial for K to be n-trivial. (Received September 14, 2004)