1052-20-32 **Nir Avni***, Department of Mathematics, Harvard University, 1 Oxford St., Cambridge, MA 02138. *Commensurator Growth of Lattices.*

Let G be a group, and let A be a subgroup of G. Denote by C_n the set of elements in G such that the index of $g^{-1}Ag \cap A$ in A is n. The commensurator growth of the pair (A, G) is the asymptotic behavior of the sequence $|N_G(A) \backslash C_n|$. I will present several computations of commensurator growths for pairs (A, G) such that A is a lattice in G. (Received July 24, 2009)