

1009-20-150

Seonhee Lim* (seonhee.lim@yale.edu), Yale University, Dept. of Mathematics, P.O. Box 208283, New Haven, CT 065208283. *Counting overlattices in automorphism groups of trees.*

We give an upper bound for the number $u_\Gamma(n)$ of “overlattices” in the automorphism group of a tree, containing a fixed lattice Γ with index n , using Bass-Serre theory. For an example of Γ in the automorphism group of a $2p$ -regular tree whose quotient is a loop, we obtain a lower bound of the asymptotic behavior as well. (Received August 14, 2005)