

1049-20-207

Angela Kubena Barnhill* (barnhill@math.northwestern.edu), Department of Mathematics, Northwestern University, Evanston, IL 60208, and **Anne Thomas**. *Commensurability and unfoldings of uniform lattices in right-angled buildings*.

In the Lie group setting, Margulis proved that a lattice is arithmetic if and only if its commensurator is dense. In the case of automorphism groups of trees, Liu showed that every cocompact lattice has dense commensurator. We consider commensurators of cocompact lattices in the automorphism groups of right-angled buildings and use a technique of “unfolding” to show that the commensurator of the standard uniform lattice is dense. (Received March 03, 2009)