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Angela K. Barnhill* (abarnhill@math.ohio-state.edu), Department of Mathematics, The Ohio State University, 231 W. 18th Ave., Columbus, OH 43210. *A criterion for property FA_n .*

Property FA_n is a higher dimensional analogue of Serre's property FA that has applications to representation theory and to the study of complex of groups decompositions. We discuss a condition on generating sets that implies FA_n and apply this criterion to prove, for example, that the fundamental groups of certain simplices of FA_n groups have FA_n . (Received August 31, 2005)