Meeting: 1004, Bowling Green, Kentucky, SS 14A, Special Session on Geometric Topology and Group Theory

1004-20-153

John Ratcliffe* (ratclif@math.vanderbilt.edu), Vanderbilt University, Department of Mathematics, 1326 Stevenson Center, Nashville, TN 37240, and Michael Mihalik and Steven Tschantz. On the Isomorphism Problem for Finitely Generated Coxeter Groups. I, Basic Matching.

In this paper, we prove a matching theorem for maximal rank irreducible noncyclic spherical subgroups of isomorphic finitely generated Coxeter groups. We use this theorem to determine the maximal rank of a finitely generated Coxeter group over all possible sets of Coxeter generators. (Received January 23, 2005)