Meeting: 999, Nashville, Tennessee, SS 5A, Special Session on Topological Aspects of Group Theory

999-55-12   **Francisco F. Lasheras*** (`lasheras@us.es`), Dpto. Geometria y Topologia, Apdo. 1160, 41080 Seville, Spain. *Properly 3-realizable groups.*

Recall that a finitely presented group G is said to be properly 3-realizable if there exists a compact 2-polyhedron K with $\pi_1(K) \cong G$ and whose universal cover has the proper homotopy of a p.l. 3-manifold (with boundary). We discuss the behavior of this property with respect to amalgamated products, HNN-extensions and direct products, as well as the independence with respect to the chosen polyhedron. We also exhibit certain classes of groups satisfying this property : finitely generated abelian groups, hyperbolic groups, one-relator groups, right-angled Artin groups, ... (Received May 31, 2004)