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Joshua Wiscons* (jwiscons@hamilton.edu). *Recognizing PGL_3 via generic 4-transitivity*. Preliminary report.

The groups of finite Morley rank form a class of groups equipped with a model-theoretic notion of dimension generalizing the affine algebraic groups over algebraically closed fields. Recently, Borovik and Cherlin initiated a broad study of permutation groups of finite Morley rank where one of the main problems is to show that there is a natural upper bound on the degree of *generic* transitivity of such a permutation group that depends only upon the rank of the set being acted on. Such a bound has been known for a few decades when the set being acted on has rank 1, and this talk will present recent work, joint with Tuna Altınel, addressing the case of rank 2. (Received September 14, 2014)