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SuHo Oh* (suhooh@gmail.com), 70 Pacific 446B, Cambridge, MA 02139. *Generalized permutohedra, h-vector of cotransversal matroids and pure O-sequences.*

Stanley has conjectured that the h-vector of a matroid complex is a pure O-sequence. We will prove this for cotransversal matroids by using generalized permutohedra. We construct a bijection between lattice points inside a r-dimensional convex polytope and bases of a rank r transversal matroid. (Received August 25, 2010)