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Ralf Youtz* (ryoutz@sfsu.edu). *Toric ideals of small matroids are generated in degree 2.*

Neil White has conjectured that the toric ideal associated with a matroid is generated by quadratic binomials associated with double swaps. We prove this conjecture for matroids of rank 2. Also, we confirm the conjecture for matroids on ground sets of size nine and less. (Received April 13, 2010)