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Jakayla R. Robbins*, jakayla.robbins@vanderbilt.edu, and **Daniel Slilaty**. *A stabilizer theorem for quaternary oriented matroids.*

By now orientations of binary and ternary orientable matroids are well-understood. Much less is known about orientable quaternary matroids. We present a structural result about orientations of quaternary matroids that do not contain a free spike minor. This is joint work with Daniel Slilaty. (Received December 03, 2012)