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Kayla Harville, Talmage James Reid* (mmreid@olemiss.edu) and **Haidong Wu.** *Regular and Binary Matroids without Certain Minors.*

We determine classes of binary and regular matroids without certain small minors. We prove a decomposition theorem for regular matroids without a fixed vertically 4-connected minor and apply this result to extend some results from graphs to regular matroids. (Received August 10, 2015)