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Tyler Moss* (jmoss11@math.lsu.edu). *Matroids that are extremal with respect to Bixby's Lemma.*

Bixby's Lemma is a well-known result in matroid theory that guarantees that any element in a 3-connected matroid can be removed in one of two ways while maintaining 3-connectivity. In this talk, we consider the 3-connected matroids that are extremal with respect to Bixby's Lemma in that each element can be removed in only one way to keep 3-connectivity. In particular, we look at how such matroids can be constructed and decomposed. (Received September 16, 2013)