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Mike Newman* (mnewman@uottawa.ca), Department of Mathematics and Statistics, 585 King Edward, Ottawa, Ontario K1N 6N5, Canada. *Random Matroids*. Preliminary report.

We consider the properties of a 'random' matroid, that is, a matroid chosen uniformly at random from the set of n -element matroids. Much is obvious about this object, but very little is actually known. For instance, it is known that asymptotically at least half of all n -elements matroids are connected. We describe some of our progress as well as what we hope to achieve. This is joint work with Dillon Mayhew, Dominic Welsh and Geoff Whittle. (Received January 25, 2010)