1080-05-23 Carolyn Chun* (chchchun@gmail.com), MSOR, PO Box 600, Wellington, 6140, New Zealand, and Dillon Mayhew, Geoff Whittle and Stefan van Zwam. Fragility in matroids.

For a matroid M with a minor N, we say that M is N-fragile if, for every element e in the ground set of M, either M/e or $M\backslash e$ does not contain N as a minor. Understanding the structure of N-fragile matroids is necessary for thinking about Rota's conjecture. In this talk, we present a characterization of the binary, Fano-fragile matroids. (Received November 20, 2011)