1067-05-1190   **Carolyn Chun*** (`carolyn.chun@vuw.ac.nz`), MSOR, PO Box 600, Wellington, 6140, and **Dillon Mayhew** (`chchchun@gmail.com`) and **James Oxley**. *Towards a splitter theorem for internally 4-connected binary matroids.* Preliminary report.

In 1980, Seymour proved that, for a 3-connected matroid M with a 3-connected proper minor N, there is an element e in $E(M)$ such that M/e or $M\backslash e$ is 3-connected and has a minor isomorphic to N unless N is a wheel or a whirl. This splitter theorem is an invaluable tool and we would like to obtain a corresponding result for internally 4-connected binary matroids. In this talk, we indicate how to construct all such matroids and we describe progress towards a splitter theorem for these matroids. (Received September 20, 2010)