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Carolyn Chun (Carolyn.Chun@msor.vuw.ac.nz), **Dillon Mayhew**
(dillon.mayhew@msor.vuw.ac.nz) and **James Oxley*** (oxley@math.LSU.edu). *A Chain
Theorem for Internally 4-connected Binary Matroids.*

When M is 3-connected matroid, Tutte's Wheels-and-Whirls Theorem proves that M has a 3-connected proper minor N with $|E(M) - E(N)| = 1$ unless M is a wheel or a whirl. This talk will discuss a corresponding result for internally 4-connected binary matroids. (Received January 24, 2010)