1037-05-297 Loni Delaplane* (lonidelaplane@gmail.com), Talmage James Reid, Haidong Wu and Xiangqian Zhou. On Minor-minimally 3-connected Binary Matroids.
A matroid $M$ is called minor-minimally 3-connected if $M$ is 3 -connected and, for each $e \in E(M)$, either $M \backslash e$ or $M / e$ is not 3 -connected. Wagner proved a chain theorem for minor-minimally 3-connected graphs. He also conjectured that the graph result could be generalized to minor-minimally 3 -connected matroids. In this paper, we confirm Wagner's conjecture for the class of minor-minimally 3-connected binary matroids by proving a chain theorem. (Received February 04, 2008)

