999-05-218 **Haidong Wu\*** (`hwu@olemiss.edu`), Department of Mathematics, University of Mississippi, University, MS 38677. *Non-separating cocircuits in binary matroids.*

A cocircuit $D$ in a connected matroid $M$ is non-separating if and only if $M\backslash D$ is connected. Non-separating cocircuits in binary matroids are natural generalizations of vertices in graphs. In this talk, we present some generalizations of certain well-known graph connectivity results to binary matroids using non-separating cocircuits. (Received August 23, 2004)