

**Meeting:** 999, Nashville, Tennessee, SS 14A, Special Session on Graph Theory and Matroid Theory

999-05-218            **Haidong Wu\*** ([hwu@olemiss.edu](mailto: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  $M \setminus D$  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)