

1096-05-526

**Gary Chartrand, Heather Jordon and Ping Zhang\*** (ping.zhang@wmich.edu), Department of Mathematics, Western Michigan University, Kalamazoo, MI 49008. *On the Eulerian Cycle Decomposition Conjecture.*

A classic theorem of Veblen states that a connected graph  $G$  has a cycle decomposition if and only if  $G$  is Eulerian. The number of odd cycles in a cycle decomposition of an Eulerian graph  $G$  and the size of  $G$  are therefore of the same parity. A conjecture on this topic is presented as are some related results and problems. (Received September 05, 2013)