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Eric S. Andrews* (eric.s.andrews@wmich.edu), Department of Mathematics, Western Michigan University, Kalamazoo, MI 49008. *On Irregular Eulerian Walks in Graphs.*

A closed walk in a connected graph G that contains every edge of G exactly once is an Eulerian circuit. A graph is Eulerian if it contains an Eulerian circuit. It is well known that a connected graph G is Eulerian if and only if every vertex of G is even. An Eulerian walk in a connected graph G is a closed walk that contains every edge of G at least once, while an irregular Eulerian walk in G is an Eulerian walk that encounters no two edges of G the same number of times. We present some results and open questions in this area of research. (Received September 06, 2013)