

**Meeting:** 1004, Bowling Green, Kentucky, SS 2A, Special Session on Graph Theory

1004-05-41      **Zhi-Hong Chen\*** ([chen@butler.edu](mailto:chen@butler.edu)), Butler University, Indianapolis, IN 46208, **Hong-Jian Lai** ([hjlai@math.wvu.edu](mailto:hjlai@math.wvu.edu)), West Virginia University, Morgantown, WV 26506, and **Weiqi Luo**, JiNan University, GuangZhou, Peoples Rep of China. *Spanning Eulerian Subgraphs in claw-free graphs.*

A graph is claw-free if it has no induced  $K_{1,3}$  subgraph. A graph is essential 4-edge-connected if removing at most three edges, the resulting graph has at most one component having edges. In this note, we show that every essential 4-edge-connected claw free graph has a spanning Eulerian subgraph with maximum degree at most 4. (Received January 10, 2005)