1056-05-536 **Hong-Jian Lai** and **Huiya Yan\*** (yan.huiy@uwlax.edu), Mathematics Department, University of Wisconsin-La Crosse, 1725 State Street, La Crosse, WI 54601. *Extremal 2-supereulerian graphs*. Preliminary report.

If a graph contains a spanning eulerian subgraph, then it is called *supereulerian*. Let  $m = \min\{c\}$  such that G has a spanning eulerian subgraph with at least c components. If  $m \leq k$ (integer), then the graph G is called *k*-supereulerian. In this talk, we are going to show that a 2-edge-connected simple graph G of order n is 2-supereulerian if  $|E(G)| \geq \binom{n-7}{2} + 10$ , and the upper bound is sharp. (Received September 11, 2009)