Rong Luo* (rluo@mtsu.edu), Department of Mathematical Sciences, Middle Tennessee State University, Murfreesboro, TN 37130. The size of edge chromatic critical graphs.

Vizing conjectured in 1968 that for each edge chromatic critical $G$ with maximum degree $\Delta$, $m \geq \frac{1}{2}\{n(\Delta - 1) + 3\}$ where $m$ and $n$ are the numbers of edges and vertices, respectively. In this talk, we will present a new lower bound on the size of critical graphs. This is joint work with Yue Zhao.

(Received January 12, 2012)