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Rong Luo* (r1uo@mtsu.edu), Department of Mathematical Sciences, Middle Tennessee State University, Murfreesboro, TN. *The size of edge chromatic critical graphs.* Preliminary report.

Vizing conjectured in 1968 that for each edge chromatic critical G with maximum degree Δ , $m \geq \frac{1}{2}\{n(\Delta - 1) + 3\}$ where m and n is the number 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)