Guantao Chen\* (gchen@gsu.edu), Department of Mathematics and Statistics, Georgia State University, Atlanta, GA 30303. Cycles in critical edge coloring graphs with large maximum degrees. Preliminary report.

Vizing conjectured that every k-critical edge coloring graphs with k>=3 contains a 2-factor. By imposing some conditions on the lower bound of maximum degree, we verify the conjecture. Moreover, we show that such graphs have a hamiltonian cycles. These are joint work with Xiaodong Chen, Songling Shan, and Yue Zhao, respectively. (Received September 19, 2016)