1083-13-178Augustine B O'Keefe\* (augustine.okeefe@uky.edu), Department of Mathematics, University<br/>of Kentucky, 715 Patterson Office Tower, Lexington, KY 40506-0027, and Huy Tai Ha. A<br/>sufficient condition for Cohen-Macaulay edge rings. Preliminary report.

Given a discrete graph G = (V, E) one can construct an associated toric ring called the edge ring of G, denoted K[G]. The development of a dictionary between the combinatorial structure of the graph and the algebraic structure of the associated ring is of great interest. In this talk we discuss a sufficient condition on the graph G so that the edge ring K[G] satisfies the Cohen-Macaulay condition. (Received August 27, 2012)