1047-05-368 Yezhou Wu* (yzwu@math.wvu.edu), Department of Mathematics, West Virginia University, Morgantown, WV 26506, Wenan Zang (wzang@maths.hku.hk), Department of Mathematics, University of Hong Kong, Hong Kong, Hong Kong, and Cun-Quan Zhang (cqzhang@math.wvu.edu), Department of Mathematics, West Virginia University, Morgantown, WV 26506. A Characterization of Almost CIS Graphs.

A graph G is called CIS if each maximal clique intersects each maximal stable set in G, and is called almost CIS if it has a unique disjoint pair (C, S) consisting of a maximal clique C and a maximal stable set S. While it is still unknown if there exists a good structural characterization of all CIS graphs, in this note we prove the following Andrade-Boros-Gurvich conjecture: A graph is almost CIS if and only if it is a split graph with a unique split partition. (Received February 02, 2009)