1057-05-200David W. Cook II\* (dcook@ms.uky.edu), Department of Mathematics, University of Kentucky,<br/>715 Patterson Office Tower, Lexington, KY 40504. Clique-whiskered graphs and face<br/>vectors. Preliminary report.

The concept of whiskering a graph at every vertex in order to produce a Cohen-Macaulay graph was introduced by Villarreal. This result was strengthened to show that a fully whiskered graph is vertex-decomposable and pure by Doctermann and Engström.

We introduce a generalisation of whiskering which we call *clique-whiskering*. We show that a fully clique-whiskered graph is vertex-decomposable and has a surprising relation between its h-vector and the face vector of the independence complex of the base graph. (Received January 22, 2010)