1056-05-963 **Ruth Haas\*** (rhaas@smith.edu), Department of Mathematics and Statistics, Smith College, Northampton, MA 01063. *The Canonical Coloring Graph.* 

Given a graph G, a Canonical Coloring Graph Can(G) has vertex set the set of all nonisomorphic colorings of the graph G, where the representative of each set of isomorphic colorings are chosen according to a canonical ordering. There is an edge between two colorings if they are identical on V(G - x) for some  $x \in V(G)$ . Can(G) varies depending on the choice of canonical representatives. In this talk we give recent results about properties of Can(G). (Received September 19, 2009)