## 1067-Z1-2265Liam Rafferty\* (raffertyl@mso.umt.edu), Liam Rafferty, Missoula, MT 59801. Uniquely<br/>D-colorable Digraphs With Large Girth. Preliminary report.

A classical result of Erdős is that for all integers k and g there exist graphs with chromatic number k and with girth at least g. Bollobás and Sauer strengthened this result by showing that there are such graphs which are, moreover, uniquely k-colorable. Colorings are special cases of homomorphisms into a fixed graph, and Zhu extended Bollobás and Sauer's result to homomorphisms into general graphs. Our work is to extend this result to digraphs with acyclic homomorphisms. (Received September 22, 2010)