1067-16-1485 G. Alan Cannon, Lucyna Kabza, C. J. Maxson and Kent M. Neuerburg* (kneuerburg@selu.edu), Dept of Mathematics, SLU Box 10687, Hammond, LA 70402. Covered Groups and Simple Rings.

For a group (G, +) with identity 0, we let $C = \{A_1, \ldots, A_n\}$ be a cover by abelian subgroups. Further, let $R(C) = \{f : G \to G \mid f_{\mid A_i} \in End(G) \text{ for all } i = 1, \ldots, n\}$. Under pointwise addition and function composition, R(C) forms a ring. We will give conditions on G and C under which R(C) will be a simple ring. (Received September 21, 2010)