

1038-06-218

**Bettina Richmond\*** ([bettina.richmond@wku.edu](mailto:bettina.richmond@wku.edu)), 1906 College Heights Blvd., Bowling Green, KY 42101. *A Class of Finite Topological Spaces with no Corresponding Semigroup Structures*. Preliminary report.

Given a semigroup  $(S, \cdot)$ , Green's left quasiorder on  $S$  is given by  $a \leq b$  if  $a = ub$  for some  $u \in S^1$ . This, in turn, gives rise to a specialization topology on  $S$ . We give a class of finite topological spaces that cannot be derived from any semigroup structure in this fashion. (Received February 10, 2008)