

1014-Z1-1165

**David E. Brown\*** (david.e.brown@usu.edu), Utah State University, Department of Math and Statistics, 3900 Old Main Hill, Logan, UT 84322, and **Arthur H. Busch** and **J. Richard Lundgren**. *Interval Tournaments*.

A directed graph  $D$  is an *interval digraph* if it has a representation using ordered pairs of intervals  $(S_u, T_u), u \in V(D)$ , such that  $u \rightarrow v$  if and only if  $S_u \cap T_v \neq \emptyset$ . A directed graph  $T$  is a tournament if for every pair of distinct vertices  $u, v \in V(T)$  either  $u \rightarrow v$  or  $v \rightarrow u$  and never both. We use results of Das, Roy, Sen, West, and Müller to characterize the tournaments that are interval digraphs via forbidden induced subtournaments.

Open problems for interval bigraphs, the undirected analogue for interval digraphs, will be discussed and future directions for research on interval digraphs will be suggested. (Received September 27, 2005)