

**Ofelia T. Alas, Richard G. Wilson**

*Spaces in which compact subsets are closed and the lattice of  
T<sub>1</sub>-topologies on a set*

Comment.Math.Univ.Carolinae 43,4 (2002) 641-652.

**Abstract:** We obtain some new properties of the class of KC-spaces, that is, those topological spaces in which compact sets are closed. The results are used to generalize theorems of Anderson [1] and Steiner and Steiner [12] concerning complementation in the lattice of  $T_1$ -topologies on a set  $X$ .

**Keywords:** KC-space,  $T_1$ -complementary topology,  $T_1$ -independent, sequential space

**AMS Subject Classification:** Primary 54A10; Secondary 54D10, 54D25, 54D55