



## $T_0$ -IDENTIFICATION P AND WEAKLY P PROPERTIES

Charles Dorsett

Received July 22, 2015

### Abstract

$T_0$ -identification spaces were introduced in 1936. Since their introduction,  $T_0$ -identification spaces have been further investigated and used to investigate and characterize other topological properties. In 1975,  $T_0$ -identification spaces were used to investigate and characterize weakly Hausdorff spaces. Within a recent paper, weakly Hausdorff spaces were generalized and investigated as weakly P properties. Other studies have proven that many topological properties are simultaneously shared by both a space and its  $T_0$ -identification space. Within this paper, all such topological properties are combined and studied as a new category of properties called  $T_0$ -identification P properties, the relationship between weakly P and  $T_0$ -identification P properties is examined, and additional properties of both weakly P and  $T_0$ -identification P properties are given.

**Keywords and phrases:** topological properties,  $T_0$ -identification spaces, weakly P.

Pioneer Journal  
of Mathematics  
and Mathematical  
Sciences



Pioneer Scientific  
Publisher