

**A STUDY ON MINIMAL PRE- γ -OPEN SETS AND FINITE
PRE- γ -OPEN SETS**

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Abstract: The aim of this paper is to investigate some new characterizations of minimal pre- γ -open sets in a topological space. We have introduced and investigated finite pre- γ -open sets and pre- γ -locally finite spaces. Moreover relationships between finite and minimal pre- γ -open sets are obtained.

Keywords and Phrases: Pre- γ -open sets, minimal pre- γ -open sets, finite pre- γ -open sets, pre- γ -locally finite space, pre- γ -regular.

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1. Introduction and Preliminaries

The notion of an operation γ was initiated by S. Kasahara [4] in 1979. Using this operation, H. Ogata [5] introduced the concept of γ -open sets. Hariwan Z. Ibrahim [1, 2] studied the pre- γ -open sets in topological spaces. Later, Vadivel