

Meeting: 1004, Bowling Green, Kentucky, SS 8A, Special Session on Topology, Convergence, and Order, in Honor of Darrell Kent

1004-54-272 **Asli Guldurdek*** (asli.guldurdek@wku.edu), Department of Mathematics, Western Kentucky University, Bowling Green, KY 42101, and **Oya Ozbakir** (ozbakir@sci.ege.edu.tr), Ege University, Department of Mathematics, 35100 Bornova-Izmir, Turkey. *On γ -semi-open sets.*

The idea of examining generalized open sets in generalized topological spaces was given by Á. Császár. Generalized \bigwedge_s -sets and generalized \bigvee_s -sets were introduced by Miguel Caldas and Julian Dontchev in general topology. Maheshwari and Prasad in 1975 introduced two new classes called semi- T_1 spaces and semi- R_0 spaces. We give the definitions of γ -semi-open set, γ_s -set and γ^s -set by using γ -open sets. Also we show that the concepts of $g.\bigwedge_s$ -set, $g.\bigvee_s$ -set, semi- T_1 space and semi- R_0 space can be generalized by replacing semi-open sets with γ -semi-open sets for any arbitrary $\gamma \in \Gamma(X)$. These concepts should be considered in generalized topological spaces instead of general topology. (Received January 26, 2005)