

International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 9 No. I (March, 2015), pp. 223-232

ON THE TOPOLOGY GENERATED BY β_c -OPEN SETS

A. EL-MABHOUH¹ AND A. MIZYED²

^{1,2} Department of Mathematics,
Islamic University of Gaza,
PO Box 108, Gaza, Gaza Strip

Abstract

A new class of generalized open sets in a topological space, called β_c -open sets, is introduced and studied. This class is contained in the class of β -open sets and contains all bc -open sets and θ *semi*-open sets. We show that the class of β_c -open sets generates the same topology as the class of θ -open sets in alexandroff spaces.

Key Words : *Generalized open sets, β_c -open sets, $\tau_{\beta_c}, \tau_{\theta}$.*

AMS Subject Classification : 54A05, 54A10.

© <http://www.ascent-journals.com>