On some properties of γ **-semi**- R_0 **spaces**

SABIR HUSSAIN

ABSTRACT.

The purpose of this paper is to introduce γ -semi- R_0 spaces in terms of γ -semi-open sets which contains the γ -semi-closure of each of its singletons. Some properties of γ -semi- R_0 spaces are also discussed and explored.

REFERENCES

- [1] Ahmad, B. and Hussain, S., Properties of γ-Operations on Topological Spaces, Aligarh Bull. Math., 22 (2003), No. 1, 45–51
- [2] Ahmad, B. and Hussain, S., *γ-Semi-Open Sets in Topological Spaces II*, Sotheast Asian Bull. Math., 34 (2010), No. 5, 997–1008
- [3] Ahmad, B. and Hussain, S., γ-Convergence in Topological Spaces, Southeast Asian Bull. Math., **29** (2005), 832–842
- [4] Ahmad, B. and Hussain, S., γ^* -Regular and γ -Normal Space, Math. Today., 22 (2006), No. 1, 37–44
- [5] Ahmad, B. and Hussain, S., On y-s-Closed Subspaces, Far East Jr. Math. Sci., 31 (2008), No. 2, 279-291
- [6] Ahmad, B., Hussain, S. and Noiri, T., On Some Mappings in Topological Space, Eur. J. Pure Appl. Math., 1 (2008), 22–29
- [7] Ahmad, B., Hussain, S. and Noiri, T., *γ-Semi-Open Sets in Topological Spaces*, Asian Eur. J. Math., **3** (2010), No. 3, 427-433. DOI: 10.1142/S1793557110000337
- [8] Ahmad, B., Hussain, S. and Noiri, T., On γ-Semi Continuous Functions, Punjab University Jr. Math., 42 (2010), 57–65
- [9] Hussain, S. and Ahmad, B., Applications of Minimal γ-Semi-Open Sets, Fasciculli Mathematici, 46 (2011), 65–76
- [10] Hussain, S. and Ahmad, B., On γ-s-Closed Spaces, Sci. Magna Jr., 3 (2007), No. 4, 89–93
- [11] Hussain, S. and Ahmad, B., On γ-s-Regular Spaces and Almost γ-s-Continuous Functions, Lobackevskii. J. Math., 30(2009), No. 4, 263-268. DOI: 10.1134/51995080209040039
- [12] Kasahara, S., Operation-Compact Spaces, Math. Japon., 24 (1979), 97–105
- [13] Ogata, H., Operations on Topological Spaces and Associated Topology, Math. Japon., 36 (1991), No. 1, 175-184

DEPARTMENT OF MATHEMATICS COLLEGE OF SCIENCE QASSIM UNIVERSITY P. O. BOX 6644, BURAYDAH 51452, SAUDI ARABIA *E-mail address*: sabiriub@yahoo.com; sh.hussain@qu.edu.sa

Received: 13.03.2014; In revised form: 16.10.2014; Accepted: 25.10.2014 2010 *Mathematics Subject Classification*. 54A05, 54A20, 54C08, 54D10. Key words and phrases. γ -open(closed), γ -semi-open (close), γ -semi-closure(interior), γ -semi- R_0 spaces.