

HALF CONNECTEDNESS IN GTS

T. NOIRI¹, S. MODAK²

ABSTRACT. The aim of this paper is to define a new type of connectedness in GT and interrelate this with generalized hyperconnectedness of GTS. We also investigate the preservation of this connectedness under the generalized continuities.

REFERENCES

- [1] Á. Császár, Generalized open sets, *Acta Math. Hungar.*, **75** (1997), 65 - 87.
- [2] Á. Császár, Generalized topology, generalised continuity, *Acta Math. Hungar.*, **96** (2002), 351 - 357.
- [3] Á. Császár, γ - connected sets, *Acta Math. Hungar.*, **101** (4) (2003), 273 - 279.
- [4] Á. Császár, Generalized open sets in generalized topologies, *Acta Math. Hungar.*, **75** (2005), 53 - 66.
- [5] C. Cao, J. Yan, W. Wang and B. Wang, Some generalized continuities functions on generalized topological spaces, *Hacettepe J. Math. Stat.*, **42**(2) (2013), 159 - 163.
- [6] E. Ekici, Generalized hyperconnectedness, *Acta Math. Hungar.*, **133**(1-2) (2011), 140 - 147.
- [7] R. X. Shen, A note on generalized connectedness, *Acta Math. Hungar.*, **122**(3) (2009), 231 - 235.

Received 27 March 2014

¹ 2949-1 SHIOKITA-CHO, HINAGU, YATSUSHIRO-SHI, KUMOMOTO-KEN, 869-5142 JAPAN

² DEPARTMENT OF MATHEMATICS, UNIVERSITY OF GOUR BANGA, P.O. MOKDUMPUR, MALDA - 732103, INDIA

E-mail address: ¹ t.noiri@nifty.com, ² smodak2000@yahoo.co.in

2010 *Mathematics Subject Classification.* 54A05, 54A10, 54D05.

Key words and phrases. Half - separated, Half - connected, (μ, μ') - continuity.