ON A NEW TYPE OF GENERALIZED CLOSED SETS IN A GTS VIA HEREDITARY CLASSES AND CERTAIN APPLICATIONS

DHANANJOY MANDAL¹ AND MANIK DAS²

Abstract. The purpose of this paper is to introduce the concept of $\mu^+-g$-closed set, a closed-like set in a GTS with a hereditary class. We establish that this class of sets lies strictly between the class of $\mu$-closed sets and that of $\mu^+-g$-closed sets. We also introduce and study $\mu^+-R_0$ space, $\mu^+-R_1$ space and $\mu^+-T_{\frac{1}{2}}$ space by using the notion of $\mu^+-g$-closed set.

REFERENCES


¹,² DEPARTMENT OF PURE MATHEMATICS, UNIVERSITY OF CALCUTTA, 35, BALLYGUNGE CIRCULAR ROAD, KOLKATA-700019, INDIA

E-mail address: ¹ dmandal.cu@gmail.com, ² manikdascu@gmail.com

Received 12 July 2016

2010 Mathematics Subject Classification. 54A05, 54A10, 54D10.

Key words and phrases. $\mu$-g-closed set, $\mu^+-g$-closed set, $\mu^+-R_0$ space, $\mu^+-R_1$ space, $\mu^+-T_{\frac{1}{2}}$ space.