Analele **Univ**ersităţii **Bucureşti**, **Mat**ematică
Anul LVII(2008), pp. 131–138

A Note on Sets s- or $\mathcal{S}$-Closed Relative to a Space and Some Separation Axioms

Zbigniew DUSZYŃSKI

Abstract - The paper continues studies of Di Maio and Noiri [G. Di Maio, T. Noiri, *On s-closed spaces*, Indian J. Pure Appl. Math., **18**(3) (1987), 226-233], Maheshwari and Prasad [S. N. Maheshwari, R. Prasad, *On s-regular spaces*, Glasnik Mat., **10**(**30**) (1975), 347–350], and Mukherjee with Basu [M. N. Mukherjee, C. K. Basu, *On $\mathcal{S}$-closed and s-closed spaces*, Bull. Malaysian Math. Sci. (S.S.), **15** (1992), 1–7]. Some other properties of sets s-closed or $\mathcal{S}$-closed relative to a topological space are obtained.

Key words and phrases : Hausdorff, Urysohn, semi-Hausdorff, s-regular spaces; semi-open, semi-regular, regular open sets

Mathematics Subject Classification (2000) **:** 54G99