



SOME GENERALIZED RESULTS ON G_δ -DIAGONAL REGULAR SPACES

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Abstract

In this paper, we constructed a space X possessing a regular G_δ -diagonal set of full measure, then the space X has a diagonal set if $\{(x, x) : x \in X\}$ and is regular in G_δ -set for $X \times X$. We extend our result for some characterization of spaces with G_δ -diagonal set, such a kind obtained by Borges [C. J. R. Borges, On metrizable spaces, *Canad. J. Math.* 20 (1978), 795-803], Ceder [J. G. Ceder, Some generalization of metric spaces, *Pacific J. Math.* 11 (1961), 105-125.] and Zenor [P. Zenor, On spaces with regular spaces, *Pacific J. Math.* (1986), 122-132].

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