Measures of Noncompactness in Regular Spaces

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Abstract. Previous results by the author on the connection between three of measures of non-compactness obtained for $L_p$, are extended to regular spaces of measurable functions. An example of advantage in some cases one of them in comparison with another is given. Geometric characteristics of regular spaces are determined. New theorems for $(k, \beta)$-boundedness of partially additive operators are proved.