

Gauge integrals and selections of weakly compact valued multifunctions

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Abstract

In this talk Henstock, McShane, Birkhoff and variationally multivalued integrals are examined for multifunctions taking values in the hyperspace of convex and weakly compact subsets of a general Banach space X . In particular the existence of selections integrable in the same sense of the corresponding multifunctions has been considered; a number of examples are given also when this is not possible.