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Set valued measures and integral representation

Comment.Math.Univ.Carolinae 37,2 (1996) 269-284.

Abstract: The extension theorem of bounded, weakly compact, convex set valued and weakly countably additive measures is established through a discussion of convexity, compactness and existence of selection of the set valued measures; meanwhile, a characterization is obtained for continuous, weakly compact and convex set valued measures which can be represented by Pettis-Aumann-type integral.

Keywords: set valued functions, set valued measures, Pettis-Aumann integral

AMS Subject Classification: 28A45, 46G10