SELECTION THEOREM IN $L^1$

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Abstract

Let $F$ be a multifunction from a metric space $X$ into $L^1$, and $B$ a subset of $X$. We give sufficient conditions for the existence of a measurable selector of $F$ which is continuous at every point of $B$. Among other assumptions, we require the decomposability of $F(x)$ for $x \in B$.

Keywords: multifunction, measurable selector, continuous selector, decomposable set.

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References


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