

© 2011 Heldermann Verlag
Journal of Convex Analysis 18 (2011) 285–300

F. S. de Blasi

Dip. di Matematica, Università di Roma "Tor Vergata", Via della Ricerca Scientifica 1, 00133
Roma, Italy
deblasi@mat.uniroma2.it

L. Tomassini

Dip. di Matematica, Università di Roma "Tor Vergata", Via della Ricerca Scientifica 1, 00133
Roma, Italy
tomassin@mat.uniroma2.it

On the Strong Law of Large Numbers in Spaces of Compact Sets

Let \mathfrak{Y} be the space of all nonempty compact subsets of \mathbb{R}^d and let $\mathcal{K}(\mathfrak{Y})$ be the space of all nonempty compact subsets of \mathfrak{Y} . For a random set with values in $\mathcal{K}(\mathfrak{Y})$, after defining the expectation, we establish a version of the strong law of large numbers. Some related results concerning the case of nonempty compact convex subsets of a Banach space \mathbb{E} are included.