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# VECTOR VALUED FUNCTIONS OF BOUNDED BIDIMENSIONAL Φ-VARIATION

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ABSTRACT. In this article we present a generalization of the concept of function of bounded variation, in the sense of Riesz, for functions defined on a rectangle in $\mathbb{R}^2$, which take values in a Banach space. As applications, we obtain generalizations of some results due to Chistyakov and a counterpart of the classical Riesz's Lemma.

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