## Letter to the Editor

by

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Theorem 1.5 of [BGPP], which the authors themselves call the main theorem of their note, follows immediately from [DL, Corollary 2.5] whose proof seems more direct. Also, Theorem 1.3 of [BGPP] follows immediately from [DL, Corollary 2.5], but, in fact, it is already a straightforward consequence of [JK, Theorem 3].

For the reader's convenience we reproduce below [DL, Corollary 2.5] and explain the underlying notation and terminology.

The space  $cca(\Sigma, \lambda, X)$  contains a closed infinite-dimensional subspace  $\mathcal{M}$  such that every nonzero  $\nu \in \mathcal{M}$  is  $\lambda$ -everywhere of infinite variation.

Here X denotes an infinite-dimensional Banach space and  $\lambda$  denotes a nonatomic probability measure on a  $\sigma$ -algebra  $\Sigma$  of subsets of some set. Moreover,  $cca(\Sigma, \lambda, X)$  stands for the Banach space of  $\lambda$ -continuous measures on  $\Sigma$  with values in X whose range is relatively compact, equipped with the uniform norm. We say that  $\nu \in cca(\Sigma, \lambda, X)$  is  $\lambda$ -everywhere of infinite variation if  $|\nu|(A) = \infty$  whenever  $A \in \Sigma$  and  $\lambda(A) > 0$ .

## References

[BGPP] G. Barbieri, F. J. García-Pacheco and D. Puglisi, *Lineability and spaceability of vector-measure spaces*, Studia Math. 219 (2013), 155–161.

[DL] L. Drewnowski and Z. Lipecki, On vector measures which have everywhere infinite variation or noncompact range, Dissertationes Math. 339 (1995), 39 pp.

[JK] L. Janicka and N. J. Kalton, Vector measures of infinite variation, Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys. 25 (1977), 239–241.

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