

Kadets, V.; Zavarzina, O.

Plasticity of the unit ball of ℓ_1 . (English. Russian, Ukrainian summaries) Zbl 1374.46005
Visn. Khark. Univ., Ser. Mat. Prykl. Mat. Mekh. 83, 4-9 (2016).

Summary: In the recent paper by *B. Cascales* et al. [Rev. R. Acad. Cienc. Exactas Fís. Nat., Ser. A Mat., RACSAM, 110(2), 723–727 (2016)] it is shown that for every strictly convex Banach space X every non-expansive bijection $F : B_X \rightarrow B_X$ is an isometry. We extend this result to the space ℓ_1 , which is not strictly convex.

MSC:

[46B04](#) Isometric theory of Banach spaces

[46B20](#) Geometry and structure of normed linear spaces

[47H09](#) Contraction-type mappings, nonexpansive mappings, A -proper mappings, etc.

Cited in **1** Review
Cited in **7** Documents

Keywords:

non-expansive map; unit ball; plastic space

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