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Preserved extreme points. (English. Russian original) [Zbl 0591.46004](#)

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An extreme point of the unit ball in a Banach space X is said to be preserved if its image under the canonical mapping from X into its second dual X^{**} is an extreme point of the unit ball in X^{**} . The author proves that X is reflexive if and only if every extreme point of its unit ball is preserved in each equivalent norm.

Reviewer: [C.M.Edwards](#)

MSC:

[46A55](#) Convex sets in topological linear spaces; Choquet theory

[46B10](#) Duality and reflexivity in normed linear and Banach spaces

Keywords:

[extreme point of the unit ball in a Banach space](#); [reflexive](#)

Full Text: [DOI](#)

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