

On Weakly Extremal Structures in Banach Spaces

JARNO TALPONEN

*University of Helsinki, Department of Mathematics and Statistics,
Box 68, (Gustaf Hällströminkatu 2b) FI-00014 University of Helsinki, Finland,
talponen@cc.helsinki.fi*

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Abstract: This paper deals with the interplay of the geometry of the norm and the weak topology in Banach spaces. Both dual and intrinsic connections between weak forms of rotundity and smoothness are discussed. Weakly locally uniformly rotund spaces, ω -exposed points, smoothness, duality and the interplay of all the above are studied.

Key words: Rotundity, weak topology, higher order smoothness.

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