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On infinite dimensional uniform smoothness of Banach spaces

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Abstract: An infinite dimensional counterpart of uniform smoothness is studied. It does not imply reflexivity, but we prove that it gives some l_p -type estimates for finite dimensional decompositions, weak Banach-Saks property and the weak fixed point property.

Keywords: Banach space, nearly uniform smoothness, finite dimensional decomposition, Banach-Saks property, fixed point property

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