

# Banach Spaces and Descriptive Set Theory: Selected Topics (Lecture Notes in Mathematics)



These notes are devoted to the study of some classical problems in the Geometry of Banach spaces. The novelty lies in the fact that their solution relies heavily on techniques coming from Descriptive Set Theory.

The central theme is universality problems. In particular, the text provides an exposition of the methods developed recently in order to treat questions of the following type: (Q) Let  $C$  be a class of separable Banach spaces such that every space  $X$  in the class  $C$  has a certain property, say property (P). When can we find a separable Banach space  $Y$  which has property (P) and contains an isomorphic copy of every member of  $C$ ? We will consider quite classical properties of Banach spaces, such as - reflexive, having separable dual, not containing an isomorphic copy of  $c_0$ , being non-universal, etc. It turns out that a positive answer to problem (Q), for any of the above mentioned properties, is possible if (and essentially only if) the class  $C$  is simple. The simplicity of  $C$  is measured in set theoretic terms. Precisely, if the class  $C$  is analytic in a natural coding of separable Banach spaces, then we can indeed find a separable space  $Y$  which is universal for the class  $C$  and satisfies the requirements imposed above.

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Descriptive Set Theory: Selected Topics, Lecture Notes. **INTEGRAL REPRESENTATION THEORY: applications  
to convexity** Jan 13, 2017 if  $Tx ? TyY ? x ? yX$ , for all  $x, y ? X$ . A Banach space  $X$  has the fixed point property if

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