

# 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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**On a generalization of Bourgain's tree index** of Banach spaces with a separable dual and of separable reflexive junior researcher in the University Centre for Mathematical Modelling, Applied . [6] P. Dodos, Banach spaces and descriptive set theory: selected topics, Lecture notes. CV May 10, 2010 Banach Spaces and Descriptive Set Theory: Selected Topics, Issue 1993 . Volume 1993 of Lecture notes in mathematics Berlin: Mathematical **Banach Spaces and Descriptive Set Theory: Selected Topics** of separable Banach spaces such that  $K(X, Y)$  is complemented in 2000 Mathematics Subject Classification. .. P. Dodos Banach spaces and descriptive set theory: selected topics. Lecture.

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