

Separable reductions, rich families, and projectional skeletons

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Abstract

We show/review the beauty and utility of separable reductions, rich families, and projectional skeletons. Separable reduction of Frechet (sub)differentiability, of fuzzy calculus, and of regularity of mappings exists. There is an intriguing interference between rich families and projectional skeletons in Banach spaces. Characterizations of Asplund and WCG spaces by the presence of suitable projectional skeletons are given.