

The uniform classification of $\ell_p \oplus \ell_q$

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Abstract

We will describe some recent joint work with Lova Randrianarivony. The basic question is to determine whether the spaces $\ell_p \oplus \ell_2$ and L_p can be uniformly homeomorphic when $1 < p < \infty$. We show this is not the case and prove some other results on uniform classification of direct sums of ℓ_p -spaces.