RADONIFYING OPERATORS RELATED TO p-STABLE MEASURES ON BANACH SPACES

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Abstract: For a real p $(1 < p < 2)$ and its conjugate p' we characterize Banach spaces E for which an operator $T : L_{p'} \to E$ is θ_p-Radonifying iff T' is p-absolutely summing. In case $p = 2$ these are exactly spaces of type 2 as was proved by Chobanjan and Tarieladze [1]. For $p < 2$ the condition is much stronger because these are spaces of stable type p isomorphic to a subspace of some L_p

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