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Covering dimension and differential inclusions

Abstract: In this paper we shall establish a result concerning the covering dimension of a set of the type $\{x \in X : \Phi(x) \cap \Psi(x) \neq \emptyset\}$, where Φ, Ψ are two multifunctions from X into Y and X, Y are real Banach spaces. Moreover, some applications to the differential inclusions will be given.

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