$\forall C \subset X$ convex, closed $\forall x \in X \setminus C \; \exists f \in X^* :$
$f(x) = a, f(C) < a$

Functional Analysis Group

SEMINARVORTRAG

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Universal differentiability sets in Banach spaces

Abstract. A set S in a Banach space X is called a universal differentiability set if for every Lipschitz function $f : X \to \mathbb{R}$ there exists a point $x \in S$ such that f is differentiable at x. In the first half of the talk we will look at new examples of very small universal differentiability sets in $\mathbb{R}^n$; the sets we present have Minkowski dimension one. Later we will discuss the structural properties of a general universal differentiability set in $\mathbb{R}^n$ and point out possible directions for future research in this area.

Zeit: Dienstag, den 6. Mai 2014 um 16:15 Uhr

Ort: Victor-Franz-Hess-Haus, Technikerstraße 25a, HS G

Gäste sind herzlich willkommen!

Eva Kopecká