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(YALE)

Bi-Lipschitz embedding in Banach spaces
Open Problems

- Characterize (meaningfully) doubling metric spaces which bilipschitz embed in L^2 (or in \mathbb{R}^n for some n). If a doubling space embeds in Hilbert space, does it also embed in \mathbb{R}^n for some n ?
- Is there a constant $C \in (1, \infty)$ such that every planar graph C -bilipschitz embeds in L^1 ?
- Analyze embedding and differentiability for some other Banach space targets violating the Radon-Nikodym property.
- Does the structure theory of sets of locally finite perimeter extend to k -step Carnot groups, for $k \geq 3$?