

**De Pauw, Thierry****An example pertaining to the failure of the Besicovitch-Federer structure theorem in Hilbert space.** (English) [Zbl 1359.28004](#)

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Summary: We give an example, in the infinite dimensional separable Hilbert space, of a purely unrectifiable Borel set with finite nonzero one dimensional Hausdorff measure, whose projection is nonnegligible in a set of directions which is not Aronszajn null.

**MSC:****28A75** Length, area, volume, other geometric measure theory**28A80** Fractals**53C65** Integral geometryCited in **1** Review  
Cited in **2** Documents**Keywords:**

rectifiable set; purely unrectifiable set; Hilbert space; negligible set

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