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**Marianna Csornyei\*** ([csornyei@math.uchicago.edu](mailto:csornyei@math.uchicago.edu)). *Projection theorem in infinite dimensional spaces.*

A fundamental theorem in geometric measure theory is the Besicovitch-Federer projection theorem which characterizes pure unrectifiability in terms of projections. The projection theorem states that in an Euclidean space, for any set of finite 1-dimensional measure, the projection in almost every direction has measure zero if and only if the set is purely unrectifiable.

In this talk we study projection theorem in infinite dimensional spaces. This is a joint work with D. Bate and B. Wilson. (Received September 22, 2015)