## PROJECTIONS AND CURVES IN INFINITE-DIMENSIONAL BANACH SPACES

BOBBY WILSON (JOINT WITH M. CSÖRNYEI, D. BATE)

## 1. Abstract

In this talk we will discuss the classical Besicovitch-Federer projection theorem and. The Besicovitch-Federer projection theorem offers a characterization of rectifiability of one-dimensional sets in  $\mathbb{R}^d$  by the size of their projections to lines. We will focus on the validity of the Besicovitch-Federer projection theorem in the case of sets in infinite-dimensional Banach spaces. In particular, we will show that this is false and discuss its application to the class of curves with  $\sigma$ -finite one-dimensional Hausdorff measure.

This is joint work with Marianna Csörnyei and David Bate.