



Mathematical Sciences Spring 2024 Colloquium Series

Dr. Jan Lang

The Ohio State University

Different degrees of noncompactness for Sobolev type embeddings



Friday, March 8 at 2:00 pm
in Bell Hall 130 and online via Zoom

Note the unusual time

Scan the QR code to access the Zoom link

Abstract

Sobolev embeddings play an essential role in theory of Partial Differential Equations and information about quality of this embeddings is fundamental for estimates of spectra for corresponding Laplace and p -Laplace type operators. Usually there is a focus on quality of compactness of such embeddings but in this talk we will try to focus on the situation when Sobolev Embedding is non-compact. We will focus on some non-compact "optimal" Sobolev embeddings and try to study their behavior (using different tools like entropy numbers, s -numbers and concept of strict singularity).

Host: Dr. Osvaldo Méndez (osmendez@utep.edu)

For further information, please contact Dr. Emil Schwab, eschwab@utep.edu

