



Fall 2018

Colloquium Series

September 14, 2018 at 3pm in Bell Hall 143

Dr. Osvaldo Méndez

The University of Texas at El Paso

A generalized Sobolev embedding theorem and applications

In a recent work we proved that under explicit, simple and optimal conditions on the Musielak-Orlicz function φ , the Sobolev-Musielak-Orlicz space $W_0^{1,\varphi}$ compactly embeds in L^φ . This compactness result and its applications to variational-type eigenvalue problems will be discussed.