SEMINAR

Grupo de Análise Funcional e Aplicações
Functional Analysis and Applications Group

Weighted Grand Morrey Spaces: Duality, Extrapolation and Interpolation. Applications to the Boundedness of Operators of Hamonic Analysis and PDEs

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Abstract

Our aim is to present recent results regarding the duality, extrapolation and interpolation of weighted grand Morrey spaces (WGMS briefly). In particular, we will discuss construction of the predual space, complex interpolation and Rubio de Francia's extrapolation for WGMSs. In the extrapolation problem we deal with Muckenhoupt weights as well as weights beyond the Muckenhoupt classes. Applications to the boundedness of operators of Harmonic Analysis in WGMSs and regularity of a solution for certain elliptic PDEs will also be discussed.

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