

Gladis Pradolini, Oscar Salinas

The fractional integral between weighted Orlicz and BMO_ϕ spaces on spaces of homogeneous type

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Abstract: In this work we give sufficient and necessary conditions for the boundedness of the fractional integral operator acting between weighted Orlicz spaces and suitable BMO_ϕ spaces, in the general setting of spaces of homogeneous type. This result generalizes those contained in [P1] and [P2] about the boundedness of the same operator acting between weighted L^p and Lipschitz integral spaces on \mathbb{R}^n . We also give some properties of the classes of pairs of weights appearing in connection with this boundedness.

Keywords: weights, Orlicz spaces, BMO , fractional integral

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