## On integral operators in weighted grand Lebesgue spaces of Banach-valued functions

Vakhtang Kokilashvili<sup>1</sup> and Alexander Meskhi<sup>2</sup>

<sup>1</sup>Ivane Javakhishvili Tbilisi State University <sup>2</sup>Georgian Technical University

April 28, 2020

## Abstract

The paper deals with boundedness problems to integral operators in weighted grand Bochner-Lebesgue spaces. We will treat both cases: when a weight function appears as a multiplier in the definition of the norm, or when it defines the absolute continuous measure of integration. Together with the diagonal case we deal with the off-diagonal case. To get the appropriate result for the Hardy-Littlewood maximal operator we rely on the reasonable bound of the sharp constant in the Buckley type theorem which is also determined here.

## Hosted file

Ko-Me-April-7-2020.pdf available at https://authorea.com/users/311115/articles/441838-on-integraloperators-in-weighted-grand-lebesgue-spaces-of-banach-valued-functions