

# Two-weight Estimates for Generalized One-sided Fractional Operators in Variable Exponent Lebesgue Spaces

Muhammad Asif<sup>1</sup>, Alexander Meskhi<sup>2</sup>

<sup>1</sup>Abdus Salam School of Mathematical Sciences,  
GC University, Lahore, Pakistan.  
asifmaths@yahoo.com

<sup>2</sup>A. Razmadze Mathematical Institute,  
1, M. aleksidze St., 0193 Tbilisi, Georgia.  
meskhi@rmi.acnet.ge

## ABSTRACT

Necessary and sufficient conditions on a weight pair  $(v, w)$  guaranteeing the boundedness of generalized one-sided fractional maximal functions and potentials from  $L_w^p$  to  $L_v^{q(x)}$  are established.