TWO-WEIGHT ESTIMATES IN $L^{p(x)}$ SPACES FOR CLASSICAL INTEGRAL OPERATORS AND APPLICATIONS TO THE NORM SUMMABILITY OF FOURIER TRIGONOMETRIC SERIES

David E. Edmunds,
(School of Mathematics, Cardiff University, UK)

Vakhtang Kokilashvili,
(A. Razmadze Mathematical Institute and
International Black Sea University, Georgia)

and

Alexander Meskhi
(School of Mathematical Sciences, GC University, Lahore and
A. Razmadze Mathematical Institute, Georgia)

Abstract. Two-weighted norm inequalities for Calderón- Zygmund singular integrals and Hardy-Littlewood maximal functions in $L^{p(\cdot)}$ spaces are established. The norm convergence and summability of Fourier series in a two-weight setting are also proved.