

COMMUTATORS OF SINGULAR INTEGRALS ON
GENERALIZED L^p SPACES WITH VARIABLE
EXPONENT

ALEXEI YU. KARLOVICH AND ANDREI K. LERNER

Abstract

A classical theorem of Coifman, Rochberg, and Weiss on commutators of singular integrals is extended to the case of generalized L^p spaces with variable exponent.

2000 *Mathematics Subject Classification*. Primary: 42B20; Secondary: 46E30.

Key words. Commutator, Calderón-Zygmund singular integral, BMO , generalized L^p space with variable exponent, local sharp maximal function.