COMMUTATORS OF MARCINKIEWICZ INTEGRALS
WITH ROUGH KERNELS ON HERZ–TYPE
HARDY SPACES WITH VARIABLE EXPONENT

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Abstract. Let $\Omega \in L^s(S^{n-1})$ for $s \geqslant 1$ be homogeneous functions of degree zero and b be BMO functions. In this paper, we obtain some boundedness of the Marcinkiewicz integral operator μ_Ω and its commutator $[b, \mu_\Omega]$ on Herz-type Hardy spaces with variable exponent.

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