NON–ISOTROPIC SINGULAR INTEGRALS AND MAXIMAL OPERATORS ALONG SURFACES OF REVOLUTION

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Abstract. The authors establish the $L^p$-mapping properties for a class of non-isotropic singular integrals along surfaces of revolution as well as the related maximal operators, where the integral kernels are given by functions $\Omega$ in $L(\log^{+} L)^{\alpha}(\Sigma)$.


Keywords and phrases: Non-isotropic dilations, singular integrals, maximal functions, surfaces of revolution, rough kernels.

REFERENCES


