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L^p Boundedness of a Class of Singular Integral Operators with Rough Kernels

Hussain AL-QASSEM
Department of Mathematics,
Yarmouk University,
Irbid-JORDAN

e-mail: husseink@yu.edu.jo

Ahmad AL-SALMAN

Department of Math., Yarmouk University,
Irbid-JORDAN

e-mail: alsalman@yu.edu.jo

Abstract: In this paper, we study the L^p mapping properties of singular integral operators with kernels belonging to certain block spaces. These operators have singularities along sets of the form $\{x=\Phi(|y|)y\}$ where Φ satisfies certain growth conditions. Our results improve as well as extend previously known results on singular integrals.

Key Words: Singular integrals, oscillatory integrals, Fourier transform, L^p boundedness, rough kernels, block spaces.

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