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SINGULAR MEASURES AND CONVOLUTION OPERATORS

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摘要

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Abstract We show that in the study of certain convolution operators, functions can be replaced by measures without changing the size of the constants appearing in weak type $(1,1)$ inequalities. As an application, we prove that the best constants for the centered Hardy--Littlewood maximal operator associated with parallelotopes do not decrease with the dimension.

Key words [Hardy--Littlewood maximal function](#) [Weak type inequalities](#) [Singular measures](#) [Convolution operators](#)

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