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L^2 BOUNDEDNESS OF THE CAUCHY TRANSFORM IMPLIES L^2 BOUNDEDNESS OF ALL CALDERÓN-ZYGMUND OPERATORS ASSOCIATED TO ODD KERNELS

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Abstract

Let μ be a Radon measure on $\mathbb{C}$ without atoms. In this paper we prove that if the Cauchy transform is bounded in $L^2(\mu)$, then all 1-dimensional Calderón-Zygmund operators associated to odd and sufficiently smooth kernels are also bounded in $L^2(\mu)$.

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