CAUCHY-FANTAPPIE' INTEGRALS FOR STRICTLY PSEUDOCONVEX DOMAINS IN $\mathbb{C}^2$ WITH NON-SMOOTH BOUNDARY

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ABSTRACT. This is a report on work in progress with D. Barrett. We construct the Leray integral for a family of strictly convex domains in $\mathbb{C}^2$ with boundary of class $C^{1,\alpha}/(0 < \alpha < 1)$. We study boundary-$L^2$ regularity for the associated singular integral operator, and L^2-compactness for the related Kerzman-Stein operator.

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