

Holomorphic Cauchy integrals: a survey of the L^p -theory and two examples

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Abstract. I will begin with an overview of recent joint work with E. M. Stein on L^p -regularity of Cauchy-type integrals (Henkin-Ramirez; Leray) for domains with appropriate convexity and minimal boundary regularity. I will then discuss two examples showing that our assumptions (regularity; convexity) on the domain that supports the Leray integral are optimal.

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