

CONVEXITÉ ET EQUATIONS DE CAUCHY-RIEMANN AVEC ESTIMATIONS L^p

CORINNE JOUENNE

Abstract

We obtain a solution of the equation $\bar{\partial}u = f$ as an integral supported only on the bounded convex domain D of $\mathbb{C}^n$, without finite type assumption. We show that u is in $L^p_{(0,q-1)}(D)$ if

$f \in L^p_{(0,q)}(D)$ and $\frac{\bar{\partial}\rho \wedge f}{(-\rho)^{1-\varepsilon}} \in L^p_{(0,q+1)}(D)$ for some ε depending on p and q , $0 < \varepsilon \leq 1$.

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