Hölder continuous solutions to complex Hessian equations

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Abstract

We prove the Hölder continuity of the solution to complex Hessian equation with the right hand side in L^p, $p > \frac{n}{m}$, $1 < m < n$, in a m-strongly pseudoconvex domain in $\mathbb{C}^n$ under some additional conditions on the density near the boundary and on the boundary data.