

Complex m -Hessian type equations in $\mathcal{E}_{m,\chi}(\Omega)$

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Abstract. In this paper, we first concern the existence of solutions of the complex m -Hessian type equation $-\chi(u)H_m(u) = \mu$ where μ vanishes on all of m -polar sets in the class $\mathcal{E}_{m,\chi}(\Omega)$. Next, we study the existence of solutions of this equation in the class $\mathcal{E}_{m,\chi}(\Omega)$ if there exists subsolution in this class. Using the above results, we study subextension in the class $\mathcal{E}_{m,\chi}(\Omega)$.

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