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Chi Li* (chi.li@stonybrook.edu). *A Pohozaev identity and critical exponents of some complex Hessian equations.*

We prove some non-existence results for Dirichlet problems of complex Hessian equations. The non-existence results are proved using the Pohozaev method. We also prove existence results for radially symmetric solutions. The main difference of the complex case from the real case is that we don't know if a priori radially symmetric property holds in the complex case. (Received January 28, 2014)