

1084-35-319

Bo Guan* (guan@math.osu.edu), Department of Mathematics, Ohio State University, Columbus, OH 43210. *On the Dirichlet problem for fully nonlinear elliptic equations on complex manifolds.*

We are concerned with the Dirichlet problem for fully nonlinear elliptic equations on Kahler or Hermitian manifolds and seek general methods to overcome difficulties in deriving a priori estimates. The new methods, which are based on subsolutions and a strict concavity property, work for a very general class of equations. (Received September 04, 2012)