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**Zuoliang Hou\*** ([hou@math.columbia.edu](mailto:hou@math.columbia.edu)), Department of Mathematics, Columbia University,  
2990 Broadway, New York, NY 10027. *Hessian Equations on Compact Kahler Manifold.*

In this paper, we will study the complex Hessian equations over compact Kahler manifold. Existence and regularity results will be proved under the certain curvature conditions. (Received August 15, 2008)