

Meeting: 1004, Bowling Green, Kentucky, SS 12A, Special Session on Partial Differential Equations and Their Applications

1004-35-245 **Bo Guan*** (guan@math.osu.edu), Department of Mathematics, Ohio State University, Columbus, OH 43210. *The Dirichlet problem for fully nonlinear equations on Riemannian manifolds.*

We present apriori estimates and existence results for elliptic Hessian equations on Riemannian manifolds. Our result covers fully nonlinear equations of Schouten tensor arising from conformal geometry. (Received January 25, 2005)