1099-53-47 Valentino Tosatti and Ben Weinkove\*, 2033 Sheridan Road, Evanston, IL 60208. Metrics on complex manifolds, Monge-Ampere equations and (n-1, n-1) forms.

A  $C^2$  function on  $\mathbb{C}^n$  is called (n-1)-plurisubharmonic in the sense of Harvey-Lawson if the sum of every n-1 eigenvalues of its complex Hessian is nonnegative. We show existence of smooth solutions to the associated Monge-Ampere equation on compact Hermitian manifolds. As a consequence we obtain Calabi-Yau theorems for special metrics on complex manifolds. (Received January 15, 2014)