## MONGE-AMPÈRE EQUATIONS, (n-1, n-1) FORMS, AND HERMITIAN METRICS

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A smooth 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-Ampère equation on compact Kähler manifolds. As a consequence we obtain Calabi-Yau theorems for balanced and Gauduchon metrics on compact Kähler manifolds. I will also describe generalizations to Hermitian manifolds and some open problems. This is a joint work with Valentino Tosatti.