

DEGENERATE COMPLEX MONGE-AMPÈRE EQUATIONS ON COMPACT HERMITIAN MANIFOLDS

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Abstract: Degenerate complex Monge-Ampère equations on compact Hermitian manifolds are closely related to important geometric problems in Hermitian geometry. The absence of a Kähler metric and positivity introduces numerous difficulties in studying them. In this talk, we will present our recent work on this type of equation, as well as its applications to the Demailly-Paun conjecture and Tosatti-Weinkove conjecture. This talk is based on joint work with Yinji Li and Professor Xiangyu Zhou.