

## Singularities of degenerate complex Monge-Ampère equation, according to Alireza Bahraini

Conjugating a variety of methods, analytic series, Schauder a priori estimates, global continuity, Alireza Bahraini obtained recently a precise description of the singular behavior of the solution of a complex Monge-Ampère equation, degenerating along a smooth divisor in a compact Kähler manifold. Applications are given to the Bogomolov-Miyaoka-Yau inequality and to the Kodaira-Hodge theory on a class of singular complex structures, in view of the proof of the existence of Lagrangian surfaces in projective complex surfaces of the general type.

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