

EXTERIOR BERNSTEIN THEOREM FOR SPECIAL LAGRANGIAN EQUATION

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Abstract: In this talk, we will present an exterior Bernstein theorem for special Lagrangian equations with supercritical phases: solutions over exterior domains must tend to quadratic polynomials at infinity with errors of the order of the fundamental solution of the Laplace equation. We will also discuss quadratic asymptotic behavior of solutions of generic fully nonlinear uniformly elliptic equations with convexity, of Monge-Ampère equations (previously known as the exterior Jörgens-Calabi-Pogorelov theorem of L. A. Caffarelli & Y.-Y. Li), of quadratic Hessian equations, and of inverse harmonic Hessian equations over exterior domains. This is a joint work with Prof. Dongsheng Li & Prof. Yu Yuan.