
TRUYEN NGUYEN, Mathematical Sciences Research Institute, 17 Gauss Way, Berkeley, CA 94720-5070

On Monge–Ampère Type Equations Arising In Optimal Transportation Problems

In this talk, we will discuss Monge–Ampère type equations arising in optimal transportation problems. We prove the comparison principle, maximum principle and also a quantitative estimate of Aleksandrov type for c -convex functions. These results are in turn used to prove the solvability and uniqueness of weak solutions for the Dirichlet problems.