

GIUSEPPE DI FAZIO

STRONG A_∞ WEIGHTS AND QUASILINEAR
DEGENERATE ELLIPTIC EQUATIONS

Strong A_∞ weights are introduced. Then, degenerate elliptic equations with respect to a power of a strong A_∞ weights are studied. We prove Harnack inequality and local regularity results for weak solutions of a quasilinear degenerate equation in divergence form under natural growth conditions. Regularity results are achieved under minimal assumptions on the coefficients.