

# DEGENERATE SOBOLEV SPACES AND REGULARITY OF SUBELLIPTIC EQUATIONS

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ABSTRACT. We summarize some recent regularity results for degenerate Monge–Ampère equations, quasilinear equations and linear subelliptic equations. The results for linear equations form a basis for the others and generalize ones obtained jointly with E. Sawyer by extending the definition of weak solution to functions in a Hilbert space associated with a nonnegative locally integrable quadratic form.