

Texas Tech University. Analysis Seminars.

# Weighted quasilinear elliptic equations in subcritical case

DAT CAO

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**Monday, April 30, 2018**

**Room: MATH 108. Time: 4:00 pm.**

**ABSTRACT.** We study the degenerate/singular quasilinear elliptic equations in the sub-critical case. Existence and pointwise estimates of solutions are obtained. We give necessary and sufficient conditions for the existence of solutions in weighted Sobolev spaces. Our approach is based on the use of Wolff potentials with weights and related integral inequalities.