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*Potential theory for sublinear elliptic equations.*

We study weak solutions to the homogeneous quasilinear elliptic equation  $-\Delta_p u = \sigma u^q$  on  $\mathbb{R}^n$  in the case  $0 < q < p - 1$  (sub-natural growth), where  $\Delta_p u = \nabla \cdot (\nabla u |\nabla u|^{p-2})$  is the  $p$ -Laplacian and  $\sigma$  is a nonnegative function (or measure) on  $\mathbb{R}^n$ . We will introduce new nonlinear potentials of Wolff type associated with this problem, and give necessary and sufficient conditions for the existence of a positive solution, together with bilateral pointwise estimates. This is joint work with Igor E. Verbitsky. (Received January 31, 2015)