## Symmetry results for critical *p*-Laplace equations

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## Abstract

It is known that positive solutions to  $\Delta_p u + u^{p^*-1} = 0$  in  $\mathbb{R}^n$ , with  $n \geq 3$  and  $1 , such that <math>u \in L^{p^*}(\mathbb{R}^n)$  and  $\nabla u \in L^p(\mathbb{R}^n)$  can be completely classified.

We provide a new approach to this problem which allows us to give a complete classification of the solutions in an anisotropic setting as well as to a suitable generalization of the problem in convex cones.

This is a joint work with A. Figalli and A. Roncoroni.