Titolo: Radial symmetry for the critical p-Laplace equation in $\mathbb{R}^N$.

ABSTRACT. We consider weak non-negative solutions to the critical p-Laplace equation in $\mathbb{R}^N$
$$-\Delta_p u = u^{p^*-1}\,,$$
in the singular case $1 < p < 2$. We prove that if $p^* \geqslant 2$ then all the solutions in $\mathcal{D}^{1,p}(\mathbb{R}^N)$ are radial (and radially decreasing) about some point. As a consequence a classification result follows.

REFERENCES

[1] Damascelli, L., Merchán S., M. L., Sciunzi, B. *Radial symmetry and applications for a problem involving the* $-\Delta_p(\cdot)$ *operator and critical nonlinearity in* $\mathbb{R}^N$, Adv. Math., 265 (2014), 313-335.