Comparison results for solutions to p-Laplace equations with Robin boundary conditions

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As it's observed in [1], in the last decades comparison results of Talenti type for Elliptic Problems with Dirichlet boundary conditions have been wisely investigated. In this paper, we generalize the results obtained in [1] to the case of p-Laplace equation with Robin boundary conditions. The point-wise comparison, obtained in [1] only in the planar case, returns in any dimension when p is sufficiently small.

This is a joint work with Vicenzo Amato, Andrea Gentile.

References

[1] A.Alvino, C. Nitsch, C. Trombetti- *A Talenti comparison result for solutions to elliptic problems with Robin boundary condition.* Preprint, arXiv (2020).