ON THE SYMMETRY OF GROUND STATE SOLUTIONS OF SOME PROBLEMS OF ELLIPTIC EQUATIONS

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In this talk we consider some problems involving elliptic equations, single equations and systems, set in an open ball in $\mathbb{R}^N$. We discuss about cases in which such solutions are radially symmetric and cases in which symmetry breaking occurs. We also present results on the precise symmetry that such solutions possess.

This subject is part of a joint work with Denis Bonheure and Miguel Ramos.