

Symmetry of solutions of elliptic systems

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We present some results about partial symmetry of solutions of some nonlinear elliptic systems in rotationally invariant domains. The method used relies strongly on maximum principles and on the analysis of the linearized system at a solution. The systems considered are cooperative, but not necessarily of gradient type, in bounded or unbounded domains. Several related questions and open problems will be presented. The results have been obtained in collaboration with L. Damascelli and F. Gladiali