

**Symmetry for overdetermined elliptic boundary value problems
in bounded and unbounded domains**

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I will present some symmetry results for overdetermined elliptic boundary value problems in bounded and unbounded Euclidean domains. The results are obtained via two different geometric approaches. The case of a bounded domain is dealt with the aid of the theory of isoparametric surfaces. The case of an unbounded domain is studied by means of a weighted Poincaré-type inequality, whose weights are nice quantities related to the curvatures of the level sets of the considered solution.