



Seminari di Matematica

New solutions for the Lane-Emden problem in planar domains

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Abstract

We consider the Lane-Emden problem on a smooth bounded planar domain. We find nodal concentrating solutions, for large values of p , where both the positive and negative part blow up, the latter with a non-radial profile. Up to our knowledge, this is the first result concerning concentration with such a pattern for planar elliptic problems. Joint work with I. Ianni and A. Pistoia (Rome Sapienza).