



Mês de: Março 2010

SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS

Dia 18 de Março (quinta-feira), às 14h15, na Sala B3-01

“A reflection principle and the regularity of the nodal set of segregated critical configurations”

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Abstract:

We deal with a class of Lipschitz vector functions $U=(u_1, \dots, u_h)$ whose components are non negative, disjointly supported and verify an elliptic equation on each support. Under a weak formulation of a reflection law, related to the Pohozaev identity, we prove that the nodal set is a collection of $C^{1,\alpha}$ hyper-surfaces (for every $0 < \alpha < 1$) up to a residual low dimensional singular set.

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