Mês de: Junho 2009

SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS

Dia 25 de Junho (quinta-feira), às 14h15, na Sala B3-01

"An invariant class of generalized sup and sub-solutions for
the energy decreasing flow"

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Abstract:

We introduce a generalization of the notion of super(sub)-solution to the Dirichlet bvp $$-\Delta u=f(x,u)$$ Classical supersolutions cas be seen as functions whose gradient, via Riez Representation Theorem applied in H^1_0, is a superhermonic function. Here, we consider a class of regular functions whose gradient is a non-negative function. We prove their invariance for the energy decreasing flow. As a consequence, we re-obtain existence of a classical solution in the presence of an well-ordered pair classical sub-solution/generalized super-solution.

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