

Mês de: SETEMBRO 2014

**SEMINÁRIO DE ANÁLISE E EQUAÇÕES
DIFERENCIAIS**

Dia 11 de Setembro (quinta-feira), às 13:30h, na Sala B3-01

On the asymptotic limits of solutions of the doubly nonlinear equation

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(em visita pós doutoral ao CMAF)

Abstract:

In this talk we discuss the asymptotic limits of solutions of the homogeneous Dirichlet problem associated to a doubly nonlinear evolution equation of the form $u_t = \Delta_p u^m + g$, as the parameters p and m go to infinity.

We will address the limits in p and m separately and in sequence, eventually completing a convergence diagram for the problem.

We find that, under certain conditions on the initial data, the problems that arise at the limit are completely different in nature, with important physical applications of their own.

