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Mês de: Setembro 2007

SEMINÁRIOS DE ANÁLISE

Dia 26 de Setembro (quarta-feira), às **15h30**, na Sala B3-01

Heteroclinic trajectories for asymptotically autonomous second order equations

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Abstract:

Let V be a double well potential, a(t) a positive coefficient which admits positive, finite limits at infinity. Under suitable assumptions, we prove the existence of heteroclinic trajectories of the equation $\ddot x=a (t)V'(x)$ which connect the two minima of V. The techniques we employ are of different nature, according to whether the two limits are equal or not: in particular, we present a variational approach of minimax type, a shooting argument and a perturbative method.

Parcialmente suportado pela FCT ao abrigo do Programa POCTI

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