



# CONFERENCIA SANTALÓ 2003

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## Jack K. Hale

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### "STABILITY IN GRADIENT SYSTEMS"

**Abstract:** We define and give conditions on infinite dimensional gradient systems which ensure that the flow on the attractor is stable under perturbations of the vector field. For a scalar parabolic equation in one space dimension, specific characterization of stable flows will be given. In several space dimensions, we describe classes of vector fields for which, generically, the flow is stable. Much less is known about systems of parabolic equations. We present some results and concentrate on the structure and number of stable equilibria. We also make some remarks about similar theories for linearly damped hyperbolic equations.

**MARTES, 7 DE OCTUBRE DE 2003**  
**12:00 HORAS**  
**AULA S-118 FACULTAD CC. MATEMÁTICAS**



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