

Mathematics > Analysis of PDEs

in the boundary

(Submitted on 31 Mar 2012)

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hyperbolicity of the equilibria, we also show the lower semicontinuity of the attractors at \epsilon=0.

Subjects: Analysis of PDEs (math.AP)

MSC classes: 35R15, 35B40, 35B41, 35B25 Cite as: arXiv:1204.0117 [math.AP] (or arXiv:1204.0117v1 [math.AP] for this version)

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Continuity of attractors for a nonlinear

We analyze the dynamics of the flow generated by a nonlinear parabolic problem when some

reaction and potential terms are concentrated in a neighborhood of the boundary. We assume that this neighborhood shrinks to the boundary as a parameter \epsilon goes to zero. Also, we suppose

that the "inner boundary" of this neighborhood presents a highly oscillatory behavior. Our main goal

here is to show the continuity of the family of attractors with respect to \epsilon. Indeed, we prove

upper semicontinuity under the usual properties of regularity and dissipativeness and, assuming

parabolic problem with terms concentrating

Submission history

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