
Stability of semilinear parabolic systems in L_2 and $W^{1,2}$

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Abstract

Starting from the “naive” question how to prove stability of semilinear parabolic systems in the spaces L_2 and $W^{1,2}$ by means of linearization, one is led to two different “natural” approaches.

The aim of the talk is to compare both approaches and to reveal some connections, e.g. with Kato’s square root problem.

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