

DYNAMICS OF A LOCALLY DAMPED SEMILINEAR WAVE EQUATION UNDER EXTERNAL FORCES

ABSTRACT. This talk is concerned with long-time dynamics of semilinear wave equations defined on bounded domains of \mathbb{R}^3 with cubic nonlinear terms and locally distributed damping. The existence of regular finite-dimensional global attractors was established by Chueshov, Lasiecka and Toundykov (2008). Here, our contribution is twofold. First, we prove uniform boundedness of attractors with respect to an external forcing parameter. Then, we study the continuity of attractors with respect to the parameter in a residual dense set.

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References.

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