

First Joint Meeting Brazil Italy of Mathematics
Special Session: Control and Asymptotics of Nonlinear
PDE Dynamics

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Title: Stability of stochastic delay evolution equations

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Abstract: We will report on some recent results concerning the stability of solutions of delay stochastic evolution equations. Almost sure stability as well as mean square stability will be analyzed. Also stability with general decay rate will be shown in some particular cases. We will emphasize that, using different Lyapunov functionals, we will be able to show how one can obtain different stability regions for some stochastic partial differential equations.