

## BOUNDEDNESS AND CONTINUITY OF THE MILD SOLUTIONS OF SEMILINEAR STOCHASTIC FUNCTIONAL EVOLUTION EQUATIONS

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*Abstract.* In this paper, we study the boundedness and stability with respect to the parameters for the mild solutions of stochastic functional evolution equations in which the nonlinearity satisfies a monotone type condition. Our main tool is a version of the Itô-type inequality by means of which we can obtain an appropriate bound for  $p$ -th moment,  $p \geq 2$ , of the mild solutions.

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