

## ULAM–HYERS–RASSIAS STABILITY OF A NONLINEAR STOCHASTIC INTEGRAL EQUATION OF VOLTERRA TYPE

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*Abstract.* The aim of this paper is to give some Ulam-Hyers-Rassias stability results for Volterra-type stochastic integral equations. The argument makes use of Gronwall lemma and Banach's fixed point theorem.

*Mathematics subject classification (2010):* 60H20, 34K20, 26D10, 46C05.

*Keywords and phrases:* Ulam-Hyers-Rassias stability, Gronwall's lemma, Stochastic integral equations, Banach's fixed point theorem.

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