GENERALIZED HYERS–ULAM STABILITY OF RICCATI DIFFERENTIAL EQUATION

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Abstract. In this paper, we will prove the generalized Hyers-Ulam stability of the Riccati differential equation of the form $y'(t) + g(t)y(t) + h(t)y(t)^2 = k(t)$ under some additional conditions. Some concrete examples will be introduced.

Key words and phrases: Generalized Hyers-Ulam stability, Riccati differential equation.

REFERENCES