ASYMPTOTIC BEHAVIOR OF SOLUTIONS OF IMPULSIVE NEUTRAL DIFFERENTIAL EQUATIONS WITH CONSTANT JUMPS

CHOLTICHA NUCHPONG, SOTIRIS K. NTOUYAS, PHOLLAKRIT THIRAMANUS AND JESSADA TARIBOON

Abstract. In this paper, we investigate the asymptotic behavior of solutions for a class of mixed type impulsive neutral delay differential equations with constant jumps. Sufficient conditions are given to guarantee that every non-oscillatory solution of the system tends to zero as $t \to \infty$. An example illustrating the result is also presented.


Keywords and phrases: Asymptotic behavior, neutral differential equation, impulsive differential equation.

REFERENCES