

EXISTENCE OF NONLINEAR NEUTRAL INTEGRODIFFERENTIAL EQUATIONS OF SOBOLEV TYPE WITH NONLOCAL CONDITION

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Abstract. In this paper, we prove the existence of solutions for a nonlinear impulsive integrodifferential equations of Sobolov type with time varying delays. The results are obtained by using measure of non-compactness and the Monchs fixed point theorem. An appli- cation of the same problem is discussed.

Keywords. Existence, neutral differential equation, impulsive differential equation, mea- sure of noncompactness, fixed point theorem .

AMS (MOS) subject classification: 34A12, 47D06, 35F25 47H10, 34K40.

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