IMPLICIT CAPUTO FRACTIONAL $q$–DIFFERENCE EQUATIONS WITH NON INSTANTANEOUS IMPULSES

Sâïd Abbas, Mouffak Benchohra and Alberto Cabada

Abstract. In the present article, we prove some existence results for a class of implicit Caputo fractional $q$–difference equations with non instantaneous impulses in Banach spaces. The used techniques rely on the concepts of measure of noncompactness and the use of suitable fixed point theorems.


Keywords and phrases: Fractional $q$–difference equation, Caputo fractional derivative, measure of noncompactness, non instantaneous impulses, fixed point theorems.

REFERENCES


