



Existence of Solutions of the Hyperbolic Fractional Inclusions Under Weak Assumptions in Banach Spaces

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Abstract

In this paper, we discuss the existing results of the hyperbolic fractional inclusions of the sum of two nonlinear mappings with local boundary conditions involving the double Caputo fractional derivatives. Our approach is based on weak assumptions of the data and some fixed point theorem results for the sum of two multimaps.

Keywords: Hyperbolic fractional inclusions, local boundary conditions, double Caputo fractional derivatives, fixed point theorem.

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