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EXISTENCE OF GLOBAL SOLUTIONS OF IMPULSIVE IVPS OF SINGULAR FRACTIONAL DIFFERENTIAL SYSTEMS ON HALF LINE

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Abstract. A impulsive boundary value problem of fractional differential equation is proposed. By constructing a novel transformation, the considered impulsive system is convert into a continuous system. We construct a weighted function space, by employing a fixed point theorem, we establish existence results for global solutions for a system of impulsive singular fractional differential equations. Am example is presented to illustrate the efficiency of the results obtained.

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