SOME NONLINEAR FRACTIONAL BOUNDARY VALUE PROBLEM IN WEIGHTED SPACE OF CONTINUOUS FUNCTIONS.

Barbara Łupińska

We will discuss the existence of solutions to some boundary value problem with the Katugampola fractional derivative. The characterization of the weighted space of continuous functions with properties of the Katugampola fractional operators will be given. Results were obtained by applying standard fixed point theorems. Some examples will be presented.

Barbara Łupińska, University of Białystok e-mail: bpietruczuk@math.uwb.edu.pl