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On the existence of a solution for a multi- singular integro-differential equation with integral boundary conditions

In this paper, we investigate the existence of a solution for the pointwise defined, multi-singular fractional differential equation

$$D^\alpha x(t) = f(t, x(t), x'(t), D^\beta x(t), \int_0^t g(\xi)x(\xi)d\xi),$$

with some integral boundary conditions.