

# Existence and non-existence results for higher order fractional boundary value problem

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We deals with the existence and uniqueness of solutions for a boundary value problem of nonlinear fractional differential equations with Katugampola fractional derivative. The main results are proved by some fixed point theorems. For applications purposes, the examples are provided to demonstrate the usefulness of our main results.

## References

- [1] B. Łupińska, *Properties of the Katugampola fractional operators*, Tatra Mt. Math. Publ. 79 no. 2, 135–148 (2021)
- [2] B. Łupińska, *Existence of solutions to nonlinear Katugampola fractional differential equations with mixed fractional boundary conditions*, Math. Methods Appl. Sci. 2022, 1–11 (2022)

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