## Existence of solutions for fractional \$m\$-point boundary-value problems at resonance with \$p\$-Laplacian operator

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## Abstract

In this paper, we considered a class of \$m\$-point boundary-value problem of fractional differential equations at resonance with \$p\$-Laplacian operator in the following: \begin{eqnarray} \left\{ \begin{array}{ll} D\_{0^+}^\beta \varphi\_p (D\_-{0^+}^\alpha u(t)) = f(t,u(t),D\_{0^+}^{(1)} (alpha - 2) u(t),D\_{0^+}^{(1)} (alpha - 1) u(t), D\_{0^+}^(alpha u(t)), \quad t \in (0,1), \\ u(0) = u'(0)=D\_{0^+}^(alpha u(0) = 0, \quad D\_{0^+}^{(1)} (alpha - 2) u(1) = \u(1) = \u(1)^{1} (m-2) {a\_i D\_{0^+}^(alpha - 2) u(1) = \u(1)^{1} (m-2) {a\_i D\_{0^+}^(alpha - 2) u(eta\_i)}, \u(eta\_i) \), \u(eta\_i) \), \u(eta\_i) \), \u(ata\_i) = 1^{1} (m-2)^{1} (m-2)^{1} (alpha - 2)^{1} (alpha - 2)

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existence of solutions of boundary value prolems.pdf available at https://authorea.com/users/ 337119/articles/462768-existence-of-solutions-for-fractional-m-point-boundary-valueproblems-at-resonance-with-p-laplacian-operator

## References