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Fractional Double-Phase Elliptic Equations Involving Variable Exponents and Critical Hardy Potentials

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Authors:

Hasna MOUJANI¹
Abderrazak KASSIDI¹
Ali EL MFADEL^{1,2}
M'hamed EL OMARI¹

¹ *Laboratory of Applied Mathematics and Scientific Computing, Sultan Moulay Slimane University, Beni Mellal, Morocco.*

² *Superior School of Technology, Sultan Moulay Slimane University, Khenifra, Morocco.*

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Abstract

This paper investigates the existence of weak solutions for a class of fractional nonlocal singular problems involving the fractional double-phase operator. The approach combines generalized Sobolev spaces with variable exponents, the Galerkin approximation method, and the theory of Young measures.

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