

Maximal and fractional integral operators on generalized Morrey spaces over metric measure spaces

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| Abstract | We establish the boundedness and weak boundedness of the maximal operator and generalized fractional integral operators on generalized Morrey spaces over metric measure spaces (X, d, μ) without the assumption of the growth condition on μ . The results are generalization and improvement of some known results. We also give the vector-valued boundedness. Moreover we prove the independence of the choice of the parameter in the definition of generalized Morrey spaces by using the geometrically doubling condition in the sense of Hytonen. |
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