

Nonlocal fractional elliptic equations and applications

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May 5, 2020

Abstract

The maximal L_p -regularity properties of nonlocal fractional elliptic equations are studied. Particularly, it is proven that the fractional elliptic operator generated by these equations is sectorial and also is a generator of an analytic semigroup. Moreover, maximal regularity properties of nonlocal fractional parabolic equation are established.

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