

**EXISTENCE OF MILD SOLUTIONS FOR
NONLOCAL CAUCHY PROBLEM FOR
FRACTIONAL NEUTRAL EVOLUTION
EQUATIONS WITH INFINITE DELAY**

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Abstract. In this article, we study the existence of mild solutions for nonlocal Cauchy problem for fractional neutral evolution equations with infinite delay. The results are obtained by using the Banach contraction principle. Finally, an application is given to illustrate the theory.

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