

Complex Fuzzy Evolution Equation with Nonlocal Conditions

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Abstract : The objective of this paper is to study the existence and uniqueness of Mild solutions for a complex fuzzy evolution equation with nonlocal conditions that accommodates the notion of fuzzy sets defined by complex-valued membership functions. We first propose definition of complex fuzzy strongly continuous semigroups. We then give existence and uniqueness result relevant to the complex fuzzy evolution equation.

Keywords : Complex fuzzy evolution equations, nonlocal conditions, mild solution, complex fuzzy semigroups

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