



آگهی سخنرانی

Propagator for Time fractional Cauchy Problem

حسنعلی امامی راد

پژوهشگاه دانشهای بنیادی

چکیده

The solution of an α -time fractional Cauchy problem with an initial datum $u(0) = f$ can be represented by $S_\alpha(t)f$ where $S_\alpha(t)$ is an α -time resolution family. Unfortunately $S_\alpha(t)$ does not satisfy the semigroup property of operators, so the problem arise how to present the solution when the initial datum is given at the time $t \neq 0$. In this talk we define the evolution family or the propagators as for nonautonomous Cauchy problem and we discuss their properties. We present the propagator family for a heat type equation in $L^2(\mathbb{R}^d)$, by means of a Fourier multiplier and we prove the regularizing effect for this problem.

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