



RESEARCH ARTICLE

A two-dimensional diffusion coefficient determination problem for the time-fractional equation

Durdimurod K. Durdiev , Askar A. Rahmonov, Zavqiddin R. Bozorov

First published: 24 April 2021 | <https://doi.org/10.1002/mma.7442>

[Read the full text >](#)



PDF



TOOLS



SHARE

Abstract

In this paper, we consider two-dimensional inverse problem for a fractional diffusion equation. The inverse problem is reduced to the equivalent integral equation. For solving this equation, the contracted mapping principle is applied. The local existence and global uniqueness results are proven. Also, the stability estimate is obtained.