

# Inverse coefficient problems for one-dimensional time-fractional diffusion equations

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## Abstract

We prove the uniqueness in determining a spatially varying zeroth-order coefficient of a one-dimensional time-fractional diffusion equation by initial value and Cauchy data at one end point of the spatial interval.

## 1 Introduction and main results

Let  $\ell, T > 0$ . By  $L^2(0, \ell)$ ,  $H^2(0, \ell)$ ,  $W^{1,1}(0, T)$ ,  $W^{1,1}(0, T; L^2(0, \ell))$ ,  $L^2(0, T; H^2(0, \ell))$ , etc., we denote the Lebesgue space and usual Sobolev spaces. For  $0 < \alpha < 1$ , we define the Caputo derivative:  $d_t^\alpha v(t) = \frac{1}{\Gamma(1-\alpha)} \int_0^t (t-s)^{-\alpha} \frac{dv}{ds}(s) ds$  for  $v \in W^{1,1}(0, T)$ , where  $\Gamma$  denotes the gamma function (e.g., Podlubny [14]). Let  $u = u(x, t) \in W^{1,1}(0, T; L^2(0, \ell)) \cap L^2(0, T; H^2(0, \ell))$  satisfy

$$d_t^\alpha u(x, t) = \partial_x^2 u(x, t) - p(x)u(x, t), \quad u(x, 0) = a(x) \in C^2[0, \ell], \quad 0 < x < \ell, \quad 0 < t < T.$$

This is a model system for example for anomalous diffusion in heterogeneous media (e.g., [14]). This article is concerned with

**Inverse coefficient problem:** Let  $T > 0$  be arbitrarily fixed. Then determine  $p(x)$ ,  $0 < x < \ell$  by data  $u(x, 0)$  for  $0 < x < \ell$  and  $u(0, t)$ ,  $\partial_x u(0, t)$  for  $0 < t < T$ .

We state our first main result on the uniqueness.

**Theorem 1** Let  $p, q \in C^2[0, T]$ ,  $a \in C^2[0, T]$  and  $u, \tilde{u} \in W^{1,1}(0, T; L^2(0, \ell)) \cap L^2(0, T; H^2(0, \ell))$  satisfy

$$d_t^\alpha u(x, t) = \partial_x^2 u(x, t) - p(x)u(x, t), \quad u(x, 0) = a(x), \quad \partial_x u(0, t) = 0, \quad x \in \ell, \quad 0 < t < T \quad (1.1)$$

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