

Blow up of nonlinear multi-time fractional differential equations

Weike Tang¹

¹Sichuan Post and Telecommunication College

February 11, 2021

Abstract

In this paper, we study the well-posedness of nonlinear multi-time fractional differential equations and show that the solutions of the system will blow up in finite time under certain assumptions. In particular, we apply the results to the nonlinear time fractional Burgers equations.

Hosted file

Finite time blow up.pdf available at <https://authorea.com/users/395069/articles/508400-blow-up-of-nonlinear-multi-time-fractional-differential-equations>