Riemann-Liouville Fractional Operators of Bicomplex Order and Its Properties.

Mahesh Goswami¹ and Raj Kumar¹

¹Mohanlal Sukhadia University Department of Mathematics

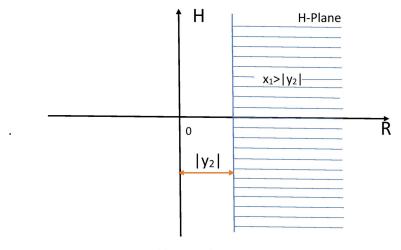
May 22, 2021

Abstract

In this paper, we construct the Riemann-Liouville fractional integral and differential operator of bicomplex order and illustrate some examples to calculate the fractional integration and differentiation of bicomplex order of some elementary functions. Also, we discuss some properties of these operators by proving analogues of the Leibniz and chain rules for these operators.

Hosted file

Riemann-Liouville Frcational Operators of Bicomplex order and Its Proerties..pdf available at https://authorea.com/users/415124/articles/523037-riemann-liouville-fractional-operators-of-bicomplex-order-and-its-properties



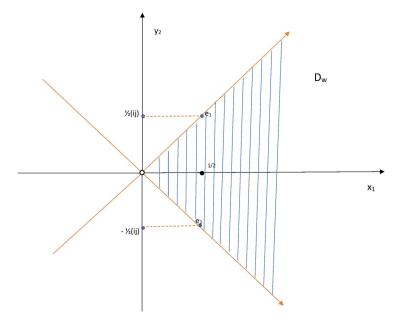


Figure: 2