

# cyclic derivatives: Symmetry of Fractional and complex

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## 1 Introduction

## 2 The symmetry of fractional cyclics and the complex plane

### 2.1 Overlapping circle in the complex

## 3 Mittag-Leffler and cyclic derivatives

### 3.1 Mittag-Leffler is somewhat a cyclic derivative

In the previous cyclic derivatives research, I pointed out that Cyclic derivatives and Mittag-Leffler are connected, and after some research i can say that we can express cyclic functions in terms of Mittag-Leffler functions like this

$$\cosh_n(x) = E_n(x^n)$$

and more generally

$$\sinh_n K(x) = E_{n, \frac{K}{j}}(x^{n - \frac{K}{j}})$$

where j is the summation variable in the sum defention of  $E$