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Mittag-Leffler function

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The Mittag-Leffler function $E_{\alpha\beta}$ is a complex function which depends on two complex parameters α and β . It may be defined by the following series when the real part of α is strictly positive:

$$E_{\alpha\beta}(z) = \sum_{k=0}^{\infty} \frac{z^k}{\Gamma(\alpha k + \beta)}$$

In this case, the series converges for all values of the argument z , so the Mittag-Leffler function is an entire function.