



MAFIA - the seminar you can't refuse

**The Mittag-Leffler functions:
a short overview of better and/or less known
properties**

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Abstract: The Mittag-Leffler function and its generalizations have been present in maths for more than hundred years. They play important role in complex analysis, theory of special functions and especially in fractional calculus and fractional differential equations where their meaning is analogous to that which the exponential function has in the standard analysis. In the first part of our talk we will discuss these properties of the Mittag-Leffler functions which make them similar to the standard exponent, while in the second part we will present possible physical applications, stressing the role of the Mittag-Leffler functions in relaxation phenomena.