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Distribution and Other Properties of Zeros of Mittag-Leffler Functions JOHN W. HANNEKEN, B. N. NARAHARI ACHAR, RAYMOND PUZIO, University of Memphis — The zeros of the Mittag-Leffler function play a significant role in the solutions of dynamic problems in fractional calculus. For example see the book Fractional Differential Equations by Podlubny, or for a specific application see the fractional oscillator by Achar et. al. Physica A297 (2001) 361-367; A309 (2002) 275-288; A339 (2204) 311-319. Very little, however, is known about these zeros. A summary of the available information about the zeros of Mittag-Leffler functions will be given and new results pertaining to their distribution will be presented.

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