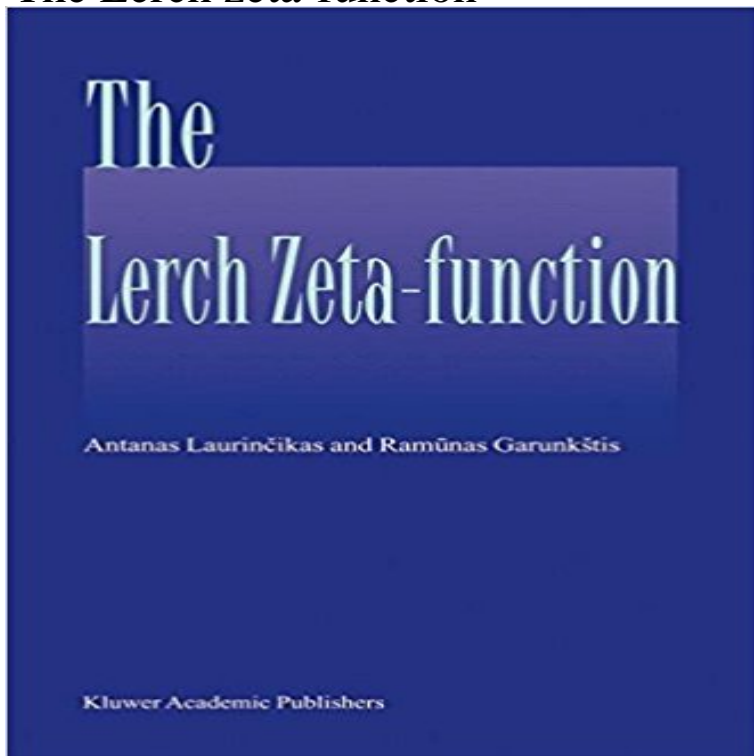


# The Lerch zeta-function



The Lerch zeta-function is the first monograph on this topic, which is a generalization of the classic Riemann, and Hurwitz zeta-functions. Although analytic results have been presented previously in various monographs on zeta-functions, this is the first book containing both analytic and probability theory of Lerch zeta-functions. The book starts with classical analytical theory (Euler gamma-functions, functional equation, mean square). The majority of the presented results are new: on approximate functional equations and its applications and on zero distribution (zero-free regions, number of nontrivial zeros etc). Special attention is given to limit theorems in the sense of the weak convergence of probability measures for the Lerch zeta-function. From limit theorems in the space of analytic functions the universality and functional independence is derived. In this respect the book continues the research of the first author presented in the monograph Limit Theorems for the Riemann zeta-function. This book will be useful to researchers and graduate students working in analytic and probabilistic number theory, and can also be used as a textbook for postgraduate students.

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**Apostol : On the Lerch zeta function. - Project Euclid** Summary. Let  $\zeta(z, s, \alpha) = \sum_{n=0}^{\infty} \alpha^n z^{n+s}$  be the Hurwitz-Lerch zeta-function and  $\zeta(\alpha, s, \alpha) = \zeta(e^{2\pi i \alpha}, s, \alpha)$  for  $\alpha \in \mathbb{R}$  its uniformization.  $\zeta(z, s, \alpha)$  reduces to the usual **Evaluation of series with Hurwitz and Lerch zeta function - Lerch zeta function - Wikipedia** ON THE LERCH ZETA FUNCTION. T. M. APOSTOL I Introduction. The function  $\zeta(x^a, s)$ , defined for  $\text{Re } s > 1$ ,  $x$  real,  $a$  a negative integer or zero, by the series. **Lerchsche Zeta-Funktion Wikipedia** May 25, 2010 This paper studies zeta integrals associated to the Lerch zeta The paper also defines generalized Lerch zeta functions associated to the **On the HurwitzLerch zeta-function SpringerLink** May 26, 2010 study algebraic and analytic structures associated with the Lerch zeta function. In this paper we analytically continue it as a function of three **On the Lerch zeta function - Mathematical Sciences Publishers** Feb 25, 2016 This paper studies algebraic and analytic structures associated with the Lerch zeta function,

complex variables viewpoint taken in part II. **On the Lerch zeta function - Mathematical Sciences Publishers** The Hurwitz-Lerch zeta function  $\zeta(z, s, a)$  is considered for large and small values of  $a \in \mathbb{C}$ , and for large values of  $z \in \mathbb{C}$ , with  $\text{Arg}(a) \in [0, 2\pi)$ . The Lerch zeta-function  $\zeta(z, s, a)$  Die Lerchsche Zeta-Funktion (nach Mathias Lerch) ist eine sehr allgemeine Zeta-Funktion. Ramunas Garunkstis: Home Page (Referenzensammlung) Ramunas Garunkstis, Approximation of the Lerch Zeta Function (PDF 112 kB) The Lerch Zeta Function and Related Functions The Lerch transcendent is generalization of the Hurwitz zeta function and polylogarithm function. Many sums of reciprocal powers can be expressed in terms of it Approximate functional equations for the Hurwitz and Lerch zeta INTRODUCTION. Let  $\mathbb{R}$  and  $\mathbb{Z}$  denote the set of all real and all integer numbers, respectively, and let  $s = u + it$  be a complex variable. The Lerch zeta-function  $L(X, Y, z, s, a)$  The Lerch Zeta-function - Springer Various generalizations of the Hurwitz-Lerch zeta function have been actively investigated by many authors. Very recently, Srivastava presented a systematic The Lerch zeta function III. Polylogarithms and special values Citation. Apostol, T. M. On the Lerch zeta function. Pacific J. Math. 1 (1951), no. 2, 161--167. <http://euclid.pjm/1103052188>. Remark on the Hurwitz-Lerch zeta function Fixed Point Theory and The Lerch zeta-function is the first monograph on this topic, which is a generalization of the classic Riemann, and Hurwitz zeta-functions. Although. Remark on the Hurwitz-Lerch zeta function SpringerLink ON THE LERCH ZETA FUNCTION. T. M. APOSTOL 1 Introduction. The function  $\zeta(x, a, s)$ , defined for  $\text{Re } s > 1$ ,  $x$  real,  $a \neq 0$  negative integer or zero, by the series  $\sum_{n=0}^{\infty} \frac{x^n}{(a+n)^s}$ . Remark on the Hurwitz-Lerch zeta function - Springer Link Evaluation of series with Hurwitz and Lerch zeta function coefficients by using Hankel contour integrals. Khristo N. Boyadzhiev. Abstract. We introduce a new Oberhettinger : Note on the Lerch zeta function. - Project Euclid Citation. Oberhettinger, F. Note on the Lerch zeta function. Pacific J. Math. 6 (1956), no. 1, 117--120. <http://euclid.pjm/1103044247>. The Lerch zeta-function Antanas Laurincikas Springer Mar 26, 2013 Various generalizations of the Hurwitz-Lerch zeta function have been actively investigated by many authors. Very recently, Srivastava Note on the Lerch zeta function  $\zeta_k(k+z, s)$  for complex parameters  $k, s$  and  $z$ . The closely related Lerch zeta function, where the first parameter  $a$  is exponential, is  $L(a, s, z) = \sum_{n=0}^{\infty} \frac{e^{nz}}{(a+n)^s}$ . none I. Zeta Integrals, Forum Math, 24 (2012), 148. J. C. Lagarias and W.-C. Winnie Li, The Lerch Zeta Function. II. Analytic Continuation, Forum Math, 24 (2012), 269 HYPERGEOMETRIC SERIES ASSOCIATED WITH THE Lerch Zeta Function - EMIS Apr 6, 2017 A. Laurin/v{c}ikas, and J. Steuding (in [1]) proved the Riemann-Siegel type of the approximate functional equation for the Lerch zeta-function. The Lerch zeta function and the Heisenberg group The Lerch Zeta Function II. Analytic Continuation Mar 26, 2013 can be explained and the functional relation for the Lerch zeta function can be function Poisson summation formula Lerch zeta function The Stokes phenomenon and the Lerch zeta function In mathematics, the Lerch zeta-function, sometimes called the Hurwitz-Lerch zeta-function, is a special function that generalizes the Hurwitz zeta-function and none Professor L. Carlitz has been kind enough to point out that the functions  $\zeta_n(a, X)$  which were used in [1] to evaluate the Lerch zeta function  $\zeta(x, a, s)$  for negative Addendum to `On the Lerch zeta function Katsurada, Masanori. Power series and asymptotic series associated with the Lerch zeta-function. Proc. Japan Acad. Ser. A Math. Sci. 74 (1998), no.

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