
Double Mellin Barnes Type Integrals And Their Application To Convolution Theory

mellin-barnes integrals for stable ... - Начало - mellin transforms by brychkov, kilbas, marichev and prudnikov [3], that will surely become a table-text for most applied mathematicians. in this paper, after the essential notions and notations concerning the mellin-barnes integrals and the mellin transform, we recall how the fi sta- **on the equivalence of parametrizations for gpds: dual ...** - on the equivalence of parametrizations for gpds: dual parametrization v.s. the mellin-barnes transform approach kirill semenov-tian-shansky petersburg nuclear physics institute **on convergent series representations of mellin-barnes ...** - on convergent series representations of mellin-barnes integrals samuel friot yand david greynat z yinstitutdephysiquenucléaired'orsay universitéparis-sud11,91405orsaycedex,france zdepartamentodefisicateórica universidaddezaragoza,clpedrocerbuna12,e-50009zaragoza,spain **on a basic integral formula involving generalized mellin ...** - on a basic integral formula involving generalized mellin - barnes type of contour integrals 1jyoti mishra and 2neelam pandey_1department of mathematics. gyan ganga college of technology ,jabalpur . 2model science college, rewa.. abstract: the aim of the present paper is to study some new unified integral formulas associated with the h **on a double integral involving the i-function of two variables** - for a detailed study of some double mellin-barnes type integrals known as general h-functions of two variables and their applications in convolution theory, we refer a book by hai and yakubovich (1992) to the readers. 2. results required we recall an interesting double integral recorded in edwards (1922, p. 145): $\int \int \square$ **on mellin-barnes integral representation of voigt profile ...** - mellin-barnes integral. the mellin-barnes integral representation of a function has more freedom in the parameters, as well as in the variables, in comparison to the series definition. then, theresultsbasedontherepresen-tation in terms of mellin-barnes integrals, namely in terms of the h- and g-functions, are more gen- **multidimensional mellin transforms involving i-functions ...** - abstract : this paper provides certain multiple mellin transforms of the product of two i-functions of r variables with different arguements. in the first instance, a basic integral formula for multiple mellin transform of i-function of "r" variables is obtained. then\double mellin transform due to reed has been employed in **introduction to mellin-barnes representations** - introduction to mellin-barnes representations for feynman integrals tord riemann, desy, zeuthen calc, july 2006, dubna • introduction: 2-loop qed contributions to bhabha scattering • barnes' contour integrals for the hypergeometric function • loop momentum integrations with feynman parameters for l-loop n-point functions **new inversion, convolution and titchmarsh's theorems for ...** - new inversion, convolution and titchmarsh's theorems for the half-hartley transform s. yakubovich abstracte generalized parseval equality for the mellin transform is employed to prove the inver- sion theorem in l 2 with the respective inverse operator related to the hartley transform on the nonnega- tive half-axis (the half-hartley transform). **on some summation formulae for the i-function of two variables** - on some summation formulae for the i-function of two variables shantha k. kumari ... we aim to establish three interesting summation formulae for the i- ... represented by means of the double mellin - barnes contour integral in the following manner. aam: intern. j., vol. 9, issue 1 (june 2014) 363 **feynman integrals and mellin-barnes representations** - • rewrite the (master) integrals by using mellin-barnes representations and try to solve the latter may be combined with other methods advantage: one has to deal with single objects, not with systems of them there are few masters of using mellin-barnes representations, among them: • v. smirnov - massless planar double box and many other **encyclopedia of mathematics and its applications ...** - encyclopedia of mathematics and its applications asymptotics and mellin-barnes integrals ... 7.3 laplace-type double integrals 299 7.3.1 mellin-barnes integral representation 303 7.3.2 the newton diagram 304 7.4 asymptotics of i ... before venturing into our examination of mellin-barnes integrals, we present an ... **on analytic continuation of various multiple zeta-functions** - on analytic continuation of various multiple zeta-functions kohji matsumoto abstract in this article we describe the development of the problem of analytic continuation of multiple zeta-functions. we begin with the work of e. w. barnes and h. mellin, and then discuss the euler sum and its multi-variable generalization. **new inversion, convolution and titchmarsh's theorems for ...** - lution operator related to the half-hilbert transform by a method, based on the double mellin-barnes integrals and developed by the author in 1990 [6], [7], [8]. as a conclusion the convolution theorem and titchmarsh's theorem about the absence of divisors of zero in the convolution product will be proved. **some double finite integrals involving the hypergeometric ...** - some double finite integrals involving the hypergeometric function and aleph-function of two variables 1 teacher in high school , france e-mail : fredericayant@gmail abstract : the aim of this document is to evaluate four finite double integrals involving the product of two hypergeometric functions and the aleph- **automatizing the application of mellin-barnes ...** - mellin-barnes representation. it is a (semi-)automatic procedure written for multi-loop calcula-tions. the package works with mathematica 5.0 and later versions of it. one has to perform the following tasks: (i) define kinematical invariants which depend on the external momenta; **multiple mellin and laplace transforms of i-functions of r ...** - multiple mellin and laplace transforms of i-functions of r variables b.k. dutta, l.k. arora ... (11) as a product of multiple mellin-barnes

contour integral by using (6) and ... the double mellin transformation of h-function of two variables [2, p. 147].

finite double integrals involving multivariable gmel-function - keywords: multivariable gmel-function, mellin-barnes integrals contour, finite double integrals, class of multivariable polynomials, aleph-function. 2010 mathematics subject classification :33c05, 33c60 i. introduction. throughout this paper, let and be set of complex numbers, real numbers and positive integers respectively. also . **thyroid solution diet - lionandcompass** - [pdf]free thyroid solution diet download book thyroid solution diet.pdf the paleo thyroid solution: an overview fri, 12 apr 2019 04:55:00 gmt the paleo thyroid solution primarily deals with the two most common thyroid disorders of our day: hashimoto's (autoimmune) **evaluating multiloop feynman integrals by mellin-barnes ...** - evaluating multiloop feynman integrals by mellin-barnes representation v.a. smirnov nuclear physics institute of moscow state university mellin-barnes representation as a tool to evaluate master integrals examples: massless triple box and massive double boxes perspectives and related mathematical problems **new generating functions pertaining to generalized mellin ...** - new generating functions pertaining to . generalized mellin-barnes type of contour integrals . mehar chand . abstract -the aim of the present paper is to evaluate new generati -function, using truesdell's ng functions **new theorems involving the generalized mellin-barnes type ...** - generalized mellin-barnes type of contour integrals and general class of polynomials. next, we obtain certain new integrals and expansion formulas by the application of our theorems. by giving suitable values to the parameters, main integral reduces to fox's h-function and generalized wright hypergeometric function, etc. **lecture notes in mathematics - link.springer** - has an euler product. also considered are the double lseries associated with an automorphic form. chapter x is devoted to the computation of the double mellintrans form of the whittaker functions. this chapter completes the proof that jacquet's whittaker function is given by the mellinbarnes integral of chapter ii. **first and second fundamental solutions of the time ...** - representations of the fundamental solutions in terms of hankel transform, double mellin-barnes integral, and h-functions of two variables. as an application, the fundamental solutions are used to solve a cauchy problem, and to study telegraph process with brownian time. **the hypergeometric approach to integral transforms and ...** - in the following chapters 11-14, we return to mellin convolution type trans forms to construct the respective convolutions of them. the idea of convolution constructions of the general convolutions by means the double mellin-barnes inte grals was realized by the first author and is developed in this book. we construct **applications of qcd 1 introduction** - result was obtained by elementary methods: the α -representation and mellin-barnes transformation and summations of multiple sums obtained after taking the mellin-barnes integrations. the crossed double box was subsequently calcu-lated[28]usingthesamemethods. thenumeratoralgebra, connectedtomultiple **a transformation formula for a certain eisenstein series ...** - a transformation formula for a certain eisenstein series in aerodynamic interference calculations takumi noda received on may 31, 2013 / revised on august 26, 2013 abstract. in 1949, f. olver established a transformation formula which converts a certain slowly convergent series into a rapidly convergent and easily computable form. **arxiv:1311.3084v2 [math] 25 nov 2013** - forms, which is based on the double mellin-barnes integrals(see in [6], [7]). following this direction, he established for the first time as an interesting particula r case the convolution operator for the stieltjes transform (2) (see [6], formula (24.38)) **arxiv:hep-ph/0003043v1 6 mar 2000 - citeseerx** - arxiv:hep-ph/0003043v1 6 mar 2000 inlo-pub 05/00 hep-ph/xyyyzz march 2000 higher order corrections in perturbative 1 quantum chromo dynamics w.l. van neerven 2 instituut-lorentz, universiteit leiden, po box 9506, 2300 ra leiden, the netherlands. **fourier series of a generalised function of two variables** - fourier series of a generalised function of two variables by c. l. kaul (department of mathematics, m.r. engineering college, jaipur) received september 6, 1971 **numerical integration of massive two-loop mellin-barnes ...** - numerical integration of massive two-loop mellin-barnes integrals in minkowskian regions outline 1 introduction 2 mellin-barnes representations 3 efficient mellin-barnes numerical integrations in minkowskian regions, basic ideas 4 tests and difficult cases 5 conclusions and outlook 2/35 **cient evaluation of massive mellin{barnes integrals** - e cient evaluation of massive mellin{barnes integrals janusz gluza and tomasz jelinski department of field theory and particle physics, institute of physics, university of silesia, uniwersytecka 4, pl{40-007 katowice, poland david a. kosower school of natural sciences, institute for advanced study, 1 einstein drive, princeton, new jersey 08540 and **copy of on certain derivatives - ijset** - on certain derivatives of the i-function of two variables 1 shantha kumari k. and 2vasudevan nambisan t.m. 1research scholar, scsvmv, kanchipuram and department of mathematics, ... represented by means of the double mellin barnes contour integral in the following manner. **contiguous relations for the double and multiple half ...** - one double and one double half-range fourier series of i-function respectively. the i-function and the results derived presented in this paper are basic in nature and may include a number of known and new results. ... l is suitable contour of the mellin-barnes type running from **arxiv:1712.04990v2 [q-fin.mf] 15 oct 2018** - expressed in terms of rapidly convergent double-series. this series formula is obtained from the mellin-barnes representation of the option price with help of residue summation in c2. we also derive the series representation for the associated risk-neutral factors, obtained by esscher transform of the space-time fractional green functions. **mixed qcd-electroweak o corrections to drell-yan processes ...** - mixed qcd-electroweak o(s) corrections to drell-yan processes in the resonance region alexander huss in collaboration with s. dittmaier and c. schwinn radcor-loopfest2015 june

15th 2015, ucla based onnucl. **latent semantic indexing overview** - the double mellin-barnes type integrals and their applications to convolution theory terms: algorithms application delay differential equations implementation integral introduction methods nonlinear ordinary oscillation partial problem systems **evaluation formulas of cauchy-mellin type for certain ...** - flavour as the classical formulas due to cauchy, mellin and ramanujan. we then prove analogous formulas for double series involving hyperbolic functions. these formulas are shown via the functional equation for barnes multiple zeta-functions, proved in a previous paper of the authors. 1. introduction **arxiv:1904.09070v1 [math] 19 apr 2019** - proof: the formulas (1.40)-(1.43) are obtained by using the mellin-barnes type contour integrals (1.35) and (1.37) of sine and cosine functions. then change the order of integration in double integrals, take laplace transform with the help of eq.(1.39) and apply gauss-legendre **euler{mellin integrals and a-hypergeometric functions c ...** - mellin barnes integrals are another class of a-hypergeometric integrals previously considered in the literature [nil09,beu11a] (see denition5.1); in particular, such integrals are used by beukers to compute elements in the local monodromy group of an a-hypergeometric system. in x5, we compare these to euler mellin integrals. **on a general class of multiple eulerian - globaljournals** - and express the factor occurring in right hand side of (3.11), regarding the following mellin-barnes integrals, we obtain, (3.18) and (3.19) we apply the fubini theorem for multiple integrals. evaluating the innermost x-integral with the help of (1.1) and finally, reinterpreting the multiple mellin-barnes integrals contour regarding of **double higgs production in the high energy limit** - written as mellin-barnes integrals whose integrands either are independent of, or depend on, t (s can be set to, say, 1). the t-independent case is easier to deal with; we evaluate the mellin-barnes integral numerically, to high precision (300 digits), and fit the result to a basis of irrational numbers using the pslq algorithm [25]. **higher order corrections in perturbative quantum ...** - next we apply the double mellin-barnes integral transformation given by $1(x+y+z)^a = z^{-1} \int_0^1 \int_0^1 du dv (a+)(x+yz)^{-a-1} u^{a-1} v^{a-1}$; (21) so that the integral in eq. (20) can be written as 106 pramana - j. phys., vol. 55, nos 1 & 2, july & august 2000. perturbative quantum chromodynamics p 3 p 1 p 2 figure 5. two-loop triangle graphs. **a certain double integral transformation** - where the function f is so prescribed that the double integral converges, and replace the h-function by its mellin-barnes contour integral given by (1) and (2). On inverting the order of integration, which can evidently be justified under the conditions stated with (b), we find that **arxiv:1212.6717v1 [math] 30 dec 2012** - the double mellin barnes type contour integral occurring in this paper will be referred to as the i-function of two variables throughout our present study and will be defined and represented in the following manner. **three lectures on hypergeometric functions** - has mild singularities; as functions defined by integrals such as the mellin-barnes integral. for one-variable hypergeometric functions this interplay has been well understood for several decades. in the several variables case, on the other hand, it is possible to extend each one of these approaches but one may get slightly different results. **exact outage probability of dual-hop csi-assisted af ...** - general, it has to be computed by its definition in terms of the double mellin-barnes type integrals [19], such as the mathematica algorithm lytical and computationally intensive. in the following, we develop a general analytical expression to compute the bivariate -function in problems. ©2007/8, **karl aberer, epfl-ic, laboratoire de systèmes d ...** - b17 the double mellin-barnes type integrals and their applications to convolution theory application b3, b17 in order to implement text retrieval models efficiently, efficient search for occurrences in documents must be supported. for that purpose different indexing techniques exist, among which inverted files are the by far most widely used. **some integrals involving i-function of two variables and ...** - in the present paper, some double integrals for i-function of two variables and its applications have been evaluated. 1. introduction the double mellin barnes type contour integral occurring in this paper will be referred to as the i-function of two variables throughout the paper and will be defined and represented in the following manner. [6] i ...

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