

# Certain q-Integrals Involving the Generalized Hypergeometric and Basic Hypergeometric Functions

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**Abstract:** The aim of this paper is to establish certain new q-integrals involving the generalized Heine's hypergeometric function, generalized q-confluent hypergeometric function. Our main findings are capable of yielding a large number of new, interesting, and useful q-integrals, expansion formulas involving the hypergeometric and basic hypergeometric functions.

**Keywords:** Finite q-integrals, Generalized q-confluent hypergeometric function, Generalized Heine's hypergeometric function

## 1 Introduction

The q-calculus is the extension of the ordinary calculus. The subject deals with the investigations of q-integrals and q-derivatives of arbitrary order and has gained importance due to its various applications in the areas like ordinary calculus, solution of the q-differential and q-integral equations, q-transform analysis [3,6,8,9]. Motivated by these avenues of applications, a number of workers have made use of these operators to evaluate q-calculus, basic analogue of H-function, basic analogue of I-function, general class of q-polynomials etc. Some fundamental properties and characteristics of the generalized Beta type function are as

$$B_p^{\alpha,\beta}(x,y) = \int_0^1 t^{x-1}(1-t)^{y-1} {}_1F_1(\alpha;\beta; \frac{-p}{t(1-t)}) dt, \quad (1)$$

For  $\Re(p) > 0, \min\Re(x), \Re(y), \Re(\alpha), \Re(\beta) > 0$ , and  $B_0^{\alpha,\beta}(x,y) = B(x,y)$  were introduced and studied in [1], where

$$B(x,y) = \int_0^1 t^{x-1}(1-t)^{y-1} dt,$$

For  $\Re(x) > 0$  and  $\Re(y) > 0$  is the well-known Euler Beta function.

See also [2] and [1].

The q-gamma function was first introduced by Thomae and later by Jackson.

The q-analogue of gamma function which is defined by

F.H. Jackson [7] is given by

$$\Gamma_q(x) = \frac{(q;q)_\infty (1-q)^{1-x}}{(q^x;q)_\infty}, 0 < q < 1$$

And the q-analogue of Beta function is defined as:

$$B_q(x,y) = \frac{\Gamma_q(x)\Gamma_q(y)}{\Gamma_q(x+y)}.$$

The q-analogue of the generalized Beta and Gamma function is defined as follows

$$B_p^{\alpha,\beta}(x,y;q) = \int_0^1 t^{x-1}(1-qt)^{y-1} \varphi_1(\alpha;\beta; \frac{-p}{t(1-qt)}) d_q t, \quad (2)$$

$\Re(p) \geq 0, \min\Re(x), \Re(y), \Re(\alpha), \Re(\beta) > 0$ , and  $|q| < 1$ .

$$B_0^{\alpha,\beta}(x,y;q) = B(x,y;q) = \int_0^1 t^{x-1}(1-qt)^{y-1} d_q t.$$

We also know that

$$B_q(\lambda + a, \delta) = \frac{(a;q)_\infty}{\lambda + \delta, q_\infty} B_q(\lambda, \delta), \quad (3)$$

$$\Gamma_p^{\alpha,\beta}(x,q) = \int_0^1 t^{x-1} \varphi_1(\alpha;\beta; -t - \frac{p}{t}; q) d_q t,$$

If  $p = 0, \alpha = \beta = 1$ , then

$$\Gamma_q(x;q) = \int_0^1 t^{x-1} \varphi_1(\alpha;\beta; -t; q) d_q t, \quad \Gamma(x;q) = \int_0^1 t^{x-1} E_q^{-t} d_q t$$


Heine's hypergeometric function is given by

$${}_2\varphi_1(a,b;c;q) = \sum_{n=0}^{\infty} \frac{(a;q)_n (b;q)_n q^n}{(c;q)_n (q;q)_n}$$

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# Path Functions Generalized Basic Hyper

**Shazia Rana, Muhammad  
Saeed, Madiha Qayyum, Florentin  
Smarandache**



## **Path Functions Generalized Basic Hyper:**

**Generalized plithogenic whole hypersoft set, PFHSS-Matrix, operators and applications as COVID-19 data structures** Shazia Rana, Muhammad Saeed, Madiha Qayyum, Florentin Smarandache, 2023-01-01 This article is a preliminary draft for initiating and commencing a new pioneer dimension of expression To deal with higher dimensional data or information flowing in this modern era of information technology and artificial intelligence some innovative super algebraic structures are essential to be formulated In this paper we have introduced such matrices that have multiple layers and clusters of layers to portray multi dimensional data or massively dispersed information of the plithogenic universe made up of numerous subjects their attributes and sub attributes For grasping that field of parallel information events and realities flowing from the micro to the macro level of universes we have constructed hypersoft and hyper super soft matrices in a Plithogenic Fuzzy environment These Matrices classify the non physical attributes by accumulating the physical subjects and further sort the physical subjects by accumulating their non physical attributes We presented the  $\text{PlithogenicAttributiveSubjectivelyWholeHyper Super Soft Matrix}$   $\text{PASWHSS Matrix}$  and  $\text{Plithogenic Subjective Attributively Whole Hyper Super Soft Matrix}$   $\text{PSAWHSS Matrix}$  Several types of views and level layers of these matrices are described In addition some local aggregation operators for Plithogenic Fuzzy Hypersoft Set PPFHS Set are developed Finally few applications of these matrices and operators are used as numerical examples of COVID 19 data structures

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**Hyperelasticity Primer** Robert M. Hackett,2018-03-31 This book introduces the

subject of hyperelasticity in a concise manner mainly directed to students of solid mechanics who have a familiarity with continuum mechanics. It focuses on important introductory topics in the field of nonlinear material behavior and presents a number of example problems and solutions to greatly aid the student in mastering the difficulty of the subject and gaining necessary insight. Professor Hackett delineates the concepts and applications of hyperelasticity in such a way that a new student of the subject can absorb the intricate details without having to wade through excessively complicated formulations. The book further presents significant review material on intricately related subjects such as tensor calculus and introduces some new formulations.

Automata, Languages and Programming Josep Díaz, 2004-08-17 This book constitutes the refereed proceedings of the 31st International Colloquium on Automata Languages and Programming ICALP 2004 held in Turku Finland in July 2004. The 97 revised full papers presented together with abstracts of 6 invited talks were carefully reviewed and selected from 379 submissions. The papers address all current issues in theoretical computer science including algorithms, automata, complexity, cryptography, database logics, program semantics and programming theory.

**Advances and Applications of DSMT for Information Fusion, Vol. IV** Florentin Smarandache, Jean Dezert, 2015-03-01 The fourth volume on Advances and Applications of Dezert Smarandache Theory DSMT for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics. The contributions see List of Articles published in this book at the end of the volume have been published or presented after disseminating the third volume 2009 <http://fs.gallup.unm.edu/DSMT/book3.pdf> in international conferences, seminars, workshops and journals.

**Tools and Algorithms for the Construction and Analysis of Systems** Kurt Jensen, 2004-03-18 This book constitutes the refereed proceedings of the 10th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2004 held in Barcelona, Spain in March/April 2004. The 37 revised full papers and 6 revised tool demonstration papers presented were carefully reviewed and selected from a total of 162 submissions. The papers are organized in topical sections on theorem proving, probabilistic model checking, testing tools, explicit state and Petri nets, scheduling, constraint solving, timed systems, case studies, software, temporal logic, abstraction and automata techniques.

Transportation Systems Analysis Ennio Cascetta, 2009-08-22 Science is made of facts just as a house is made of bricks but a collection of facts is no more science than a pile of bricks is a house. Henri Poincaré

The aim of the disciplines of praxis is not theoretical knowledge. It is to change the forms of action. Aristotle

Transportation systems consist not only of the physical and organizational elements that interact with each other to produce transportation opportunities but also of the demand that takes advantage of such opportunities to travel from one place to another. This travel demand in turn is the result of interactions among the various economic and social activities located in a given area. Mathematical models of transportation systems represent for a real or hypothetical transportation system the demand, the functioning of the physical and organizational elements, the interactions between them and their effects on the external world.

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Vector Partitions, Visible Points and Ramanujan Functions  
Geoffrey B. Campbell, 2024-05-29 Vector Partitions Visible Points and Ramanujan Functions offers a novel theory of Vector Partitions though very much grounded in the long established work of others that could be developed as an extension to the existing theory of Integer Partitions The book is suitable for graduate students in physics applied mathematics number theory and computational mathematics It takes the reader up to research level presenting new results alongside known classical results from integer partitions and areas of vector and multipartite partition theory It also sets forth new directions for research for the more advanced reader Above all the intention of the book is to bring new inspiration to others who study mathematics and related areas It is hoped that some new ideas will be launched to add value and insight into many of the classical and new theories surrounding partitions The book is an appreciation of the many gifted authors of research into partitions over the past century and before in the hope that more may come of this for future generations Features Provides a step by step guide through the known literature on Integer and Vector Partitions and a focus on the not so well known Visible Point Vector identities Serves as a reference for graduate students and researchers in physics applied mathematics number theory and computational mathematics Offers a variety of practical examples as well as sets of exercises suitable for students and researchers Geoffrey B Campbell completed his PhD at Australian National University in 1998 under the esteemed physicist Professor Rodney Baxter His affiliation with the Australian National University Mathematical Sciences Institute has continued for over 30 years Within that time frame Geoffrey also served eight years as an Honorary Research Fellow at LaTrobe University Mathematics and Statistics Department in Melbourne Currently he writes ongoing articles for the Australian Mathematical Society Gazette Within the international scope Geoffrey currently serves as a PhD external committee member for a mathematics graduate student at Washington State University in America Geoffrey has built a career within Australian Commonwealth and State government departments including as an Advisor at the Department of Prime Minister and Cabinet as Analyst Researcher for a Royal Commission Geoffrey specializes in complex data machine learning including data analytics He is also a published poet in Australian anthologies and literary magazines

Advanced Studies in Contemporary Mathematics, 2005

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 on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The  
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Neutrosophic Sets and Systems, Vol. 33, 2020 Florentin Smarandache, Mohamed Abdel-Basset, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Some articles in this issue Extension of HyperGraph to n SuperHyperGraph and to Plithogenic n SuperHyperGraph and Extension of HyperAlgebra to n ary Classical Neutro Anti HyperAlgebra Neutrosophic Triplet Partial Bipolar Metric Spaces The Neutrosophic Triplet of BI algebras

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model so that geometrization of known classical fields and elementary particle quantum numbers results The notion of many sheeted space time allows re interpretation of the structures of perceived world in terms of macroscopic space time topology The generalization of the number concept based on fusion of real numbers and  $p$  adic number fields implies a further generalization of the space time concept allowing to identify space time correlates of cognition and intentionality Quantum measurement theory extended to a quantum theory of consciousness becomes an organic part of theory A highly non trivial prediction is the existence of a fractal hierarchy of copies of standard model physics with dark matter identified in terms of macroscopic quantum phases characterized by dynamical and quantized Planck constant The book is a comprehensive overview and analysis of topological geometrodynamics as a mathematical and physical theory

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