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Theory Of Hypergeometric Functions Springer

This book presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables. Starting from an integrand which is a product of powers of polynomials, integrals are explained, in an open affine space, as a pair of twisted de Rham cohomology and its dual over the coefficients of local system.

Theory of Hypergeometric Functions - Springer

Introduction. This book presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables. Starting from an integrand which is a product of powers of polynomials, integrals are explained, in an open affine space, as a pair of twisted de Rham cohomology and its dual over the coefficients of local system.

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Theory of Hypergeometric Functions - springer

A hypergeometric function can be regarded as a generating analytic function of more complicated combinatorial numbers which generalizes the binomial series. By studying its analytic structure, it provides us with information such as relations among combinatorial numbers and their growth.

Introduction: the Euler–Gauss Hypergeometric Function ...

In this paper, we investigate the relationships among hypergeometric series, truncated hypergeometric series, and Gaussian hypergeometric functions through some families of "hypergeometric" algebraic...

Hypergeometric Series, Truncated Hypergeometric Series ...

Aomoto K., Kita M. (2011) Arrangement of Hyperplanes and Hypergeometric Functions over Grassmannians. In: Theory of Hypergeometric Functions. Springer Monographs in Mathematics.

Arrangement of Hyperplanes and Hypergeometric Functions ...

Anderson G D, Vamanamurthy M K, Vuorinen M. Hypergeometric functions and elliptic integrals. In: Srivastava H M, Owa S, eds. Current Topics in Analytic Function Theory. River Edge: World Scientific Publishing, 1992, 48–85. Google Scholar

Inequalities for the Gaussian hypergeometric function ...

In general case, the hypergeometric functions are defined as a linear combinations of the Mellin-Barnes integrals. These ques tions are extensively discussed in Chapter 1. Moreover, the Mellin-Barnes type integrals can be understood as an inversion Mellin transform from the quotient of products of Euler's gamma-functions.

The Hypergeometric Approach to Integral ... - Springer

The subjects treated in this book have been especially chosen to represent a bridge connecting the content of a first course on the elementary theory of analytic functions with a rigorous treatment of some of the most important special functions: the Euler gamma function, the Gauss hypergeometric function, and the Kummer confluent hypergeometric function.

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Hypergeometric Summation - An Algorithmic ... - Springer

The subject of this book is the higher transcendental function known as the confluent hypergeometric function. In the last two decades this function has taken on an ever increasing significance because of its use in the application of mathematics to physical and technical problems. There is no

The Confluent Hypergeometric Function - Springer

This book presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables. Starting from an integrand which is a product of powers of polynomials, integrals are explained, in an open affine space, as a pair of twisted de Rham cohomology and its dual over the coefficients of local system.

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Theory of Hypergeometric Functions (Springer Monographs in... A hypergeometric function can be regarded as a generating analytic function of more complicated combinatorial numbers which generalizes the binomial series.

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Hypergeometric Summation | Springer for Research & Development

Special function defined by a hypergeometric series The term "hypergeometric function" sometimes refers to the generalized hypergeometric function. For other hypergeometric functions see See also. In mathematics, the Gaussian or ordinary hypergeometric function ${}_2F_1(a,b;c;z)$ is a special function represented by the hypergeometric series, that includes many other special functions as specific or limiting cases. It is a solution of a second-order linear ordinary differential equation (ODE). Every s

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