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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.

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.

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four tables. In Section 1.7 we will start with the first q-functions in order to facilitate the description of the various Schools. In the following sections we will sketch the connections to other subjects like analytic number theory and combinatorics. In Chapter 2 we will give a survey of the different Schools in q-analysis, with

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On the connection problem for ordinary differential equations, Schäfke and Schmidt (LNM 810, Springer, 1980) gave an impressive idea which focuses on the series expansion of fundamental system of solutions. We apply their idea to solve the connection problem for the generalized hypergeometric equation and derive the connection matrix.

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.

In mathematics, the Gaussian or ordinary hypergeometric function $2 F 1 (a,b;c;z)$ 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 second-order linear ODE with three regular singular points can be transformed into this ...

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