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A main tool is the theory of Gröbner bases, which is reexamined here from the point of view of geometric deformations. Perturbation techniques have a long tradition in analysis; Gröbner deformations of left ideals in the Weyl algebra are the algebraic analogue to classical perturbation techniques.

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The Gröbner deformation of these GKZ hypergeometric systems reduces problems concerning hypergeometric functions to questions about commutative monomial ideals, and thus leads to an unexpected interplay between analysis and combinatorics.

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Irregularity of hypergeometric systems via slopes along coordinate subspaces by Mathias Schulze, Uli Walther , 2008 We study the irregularity sheaves attached to the  $A$ -hypergeometric  $D$ -module  $MA(\hat{\mathbb{I}}^2)$  introduced by I.M. Gel'fand et al. [GGZ87, GZK89], where  $A \hat{\in} \mathbb{Z}^d$  is pointed of full rank and  $\hat{\mathbb{I}}^2 \hat{\in} \mathbb{C}^d$ .

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### **Generalized hypergeometric series - PDF Free Download**

The theory of Groebner bases is a main tool for dealing with rings of differential operators. This book reexamines the concept of Groebner bases from the point of view of geometric deformations. The algorithmic methods introduced in this book are particularly useful for studying the systems of multidimensional hypergeometric PDE's introduced by Gelfand, Kapranov, and Zelevinsky.

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[46] Goto, Y., Matsumoto, K. Pfaffian equations and contiguity relations of the hypergeometric function of type  ${}_2F_1(k+1, k+n+2)$  and their applications. arXiv: 1602.01637, to appear in Funkcialaj, Ekvacioj.

### **Partition structure and the ${}_2F_1$ -hypergeometric**

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In recent years, new algorithms for dealing with rings of differential operators have been discovered and implemented. A main tool is the theory of Groebner bases, which is reexamined here from the point of view of geometric deformations. Perturbation techniques have a long tradition in analysis;

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### [0707.0043] Modified A-hypergeometric Systems

The International School for Advanced Studies (SISSA) was founded in 1978 and was the first institution in Italy to promote post-graduate courses leading to a Doctor Philosophiae (or PhD) degree.

### On the all-order $\hat{\mu}$ -expansion of generalized hypergeometric

The holonomic rank of the A-hypergeometric system  $H_A(\hat{\mu})$  is shown to depend on the parameter vector  $\hat{\mu}$  when the underlying toric ideal  $I_A$  is a non-Cohen-Macaulay codimension 2 toric ideal. The set of exceptional parameters is usually infinite.

### Rank Jumps in Codimension 2 A-hypergeometric Systems

The theory of Groebner bases is a main tool for dealing with rings of differential operators. This book reexamines the concept of Groebner bases from the point of view of geometric deformations.

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PDF Restore Delete Forever. Follow this author. New articles by this author. ... Bernd Sturmfels. Director of the Max Planck Institute for Mathematics in the Sciences in Leipzig, ... Groebner Deformations of Hypergeometric Differential Equations. M Saito, B Sturmfels, N Takayama. Berlin : Springer, 2000.

### Bernd Sturmfels - Google Scholar Citations

We consider bases of Pfaffian systems for A-hypergeometric systems. These are given by Groebner deformations, they also provide bases for twisted cohomology groups. For a hypergeometric system associated with a class of order polytopes, these bases have a combinatorial description.

### Pfaffian systems of A-hypergeometric equations I: Bases of

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Abstract. We study the holonomic rank for A-hypergeometric systems. Especially, we are interested in describing the holonomic rank explicitly. We define homological objects that generalize A-hypergeometric

systems: the A-hypergeometric D-complexes. These complexes have proved to be a powerful tool to investigate holonomic ranks, and may also be useful to study other D-invariants.

### **A-Hypergeometric ranks for toric threefolds**

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### **Cattani, D'Andrea, Dickenstein : The $\mathbb{A}^1$ -hypergeometric**

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### **La Bruja Del Bosque (Spanish Edition) By Ramón G. Guillón**

He accomplished this by (1) determining which A-hypergeometric systems have a full set of polynomial solutions modulo  $p$  for almost all primes  $p$  and (2) showing that these systems come from geometry.

### **Hasse invariants and mod $p$ solutions of $\mathbb{A}^1$**

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hypergeometric functions, symbolic summation, statistics, non commutative algebra, numerics (e.g. wavelets construction), and systems theory. ... Fact: Groebner bases have many "nice properties" and hence, for Groebner bases, many fundamental problems can be solved by "easy" algorithms.

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