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***A-hypergeometric systems and relative cohomology.*** (English) Zbl 07301549

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**MSC:**

**14F10** Differentials and other special sheaves;  $D$ -modules; Bernstein-Sato ideals and polynomials

**14M25** Toric varieties, Newton polyhedra, Okounkov bodies

**Keywords:**

*A*-hypergeometric system; toric variety;  $D$ -module

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**References:**

- [1] Adolphson, A., Hypergeometric functions and rings generated by monomials, *Duke Math. J.*73(2) (1994) 269-290. · [Zbl 0804.33013](#)
- [2] Adolphson, A. and Sperber, S., Dwork cohomology, de Rham cohomology, and hypergeometric functions, *Amer. J. Math.*122(2) (2000) 319-348. · [Zbl 0980.14017](#)
- [3] Aspinwall, P. S., Greene, B. R. and Morrison, D. R., The monomial-divisor mirror map, *Internat. Math. Res. Not.*12 (1993) 319-337. · [Zbl 0798.14030](#)
- [4] Baldassarri, F. and D'Agnolo, A., On Dwork cohomology and algebraic  $(D\backslash)$ -modules, in *Geometric Aspects of Dwork Theory* (2003), pp. 245-253.
- [5] Dimca, A., Maaref, F., Sabbah, C. and Saito, M., Dwork cohomology and algebraic  $(\mathcal{D})$ -module, *Math. Ann.*318(1) (2000) 107-125. · [Zbl 0985.14007](#)
- [6] Gel'fand, I. M., Zelevinskii, A. V. and Kapranov, M. M., Hypergeometric functions and toral manifolds, *Funktsional. Anal. i Prilozhen.*23(2) (1989) 94-106.
- [7] Hosono, S., Lian, B. and Yau, S.-T., Maximal degeneracy points of GKZ systems, *J. Amer. Math. Soc.*10(2) (1997) 427-443. · [Zbl 0874.32007](#)
- [8] Huang, A., Lian, B., Yau, S.-T. and Zhu, X., Chain integral solutions to tautological systems, *Math. Res. Lett.*23 (2016) 1721-1736. · [Zbl 1364.14031](#)
- [9] Huang, A., Lian, B. and Zhu, X., Period integrals and the Riemann-Hilbert correspondence, *J. Differential Geometry*104 (2016) 325-369. · [Zbl 1387.14042](#)
- [10] Katz, N. M., On the differential equations satisfied by period matrices, *35Inst. Hautes Études Sci. Publ. Math.* (1968) 223-258.
- [11] Reichelt, T., Laurent polynomials, GKZ-hypergeometric systems and mixed Hodge modules, *Compositio Math.*150 (2014) 911-941. · [Zbl 1315.14016](#)
- [12] Schulze, M. and Walther, U., Hypergeometric  $(D\backslash)$ -modules and twisted Gauss-Manin systems, *J. Algebra*322(9) (2009) 3392-3409. · [Zbl 1181.13023](#)
- [13] Zhou, J., GKZ hypergeometric series for the Hesse pencil, chain integrals and orbifold singularities, *SIGMA*13(30) 30. · [Zbl 1453.14106](#)

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