Koelink, Erik (ed.); Kolb, Stefan (ed.); Reshetikhin, Nicolai (ed.); Vlaar, Bart (ed.)

Hypergeometry, integrability and Lie theory. Virtual conference, Lorentz Center, Leiden, the Netherlands, December 7–11, 2020. (English) [Zbl 1496.17001]


Publisher’s description: This volume contains the proceedings of the virtual conference on Hypergeometry, Integrability and Lie Theory, held from December 7–11, 2020, which was dedicated to the 50th birthday of Jasper Stokman.

The papers represent recent developments in the areas of representation theory, quantum integrable systems and special functions of hypergeometric type.

The articles of this volume will be reviewed individually.

Indexed articles:

Etingof, Pavel; Kazhdan, David, Characteristic functions of $p$-adic integral operators, 1-27 [Zbl 07602313]

Garbali, Alexander; Zinn-Justin, Paul, Shuffle algebras, lattice paths and the commuting scheme, 29-68 [Zbl 07602314]

Kolb, Stefan, The bar involution for quantum symmetric pairs – hidden in plain sight, 69-77 [Zbl 07602315]

Koornwinder, Tom H., Charting the $q$-Askey scheme, 79-94 [Zbl 07602316]

Rains, Eric M., Filtered deformations of elliptic algebras, 95-154 [Zbl 07602317]

Regelskis, Vidas; Vlaar, Bart, Pseudo-symmetric pairs for Kac-Moody algebras, 155-203 [Zbl 07602318]

Reshetikhin, N.; Stokman, J. V., Asymptotic boundary KZB operators and quantum Calogero-Moser spin chains, 205-241 [Zbl 07602319]

Rößler, Margit; Voit, Michael, Elementary symmetric polynomials and martingales for Heckman-Opdam processes, 243-262 [Zbl 07602320]

Schomerus, Volker, Conformal hypergeometry and integrability, 263-285 [Zbl 07602321]

Varchenko, Alexander, Determinant of $\mathbb{F}_p$-hypergeometric solutions under ample reduction, 287-307 [Zbl 07602322]

Varchenko, Alexander, Notes on solutions of KZ equations modulo $p^s$ and $p$-adic limit $s \to \infty$, 309-347 [Zbl 07602323]

MSC:

17-06 Proceedings, conferences, collections, etc. pertaining to nonassociative rings and algebras
17B80 Applications of Lie algebras and superalgebras to integrable systems
33C60 Connections of hypergeometric functions with groups and algebras, and related topics
43A90 Harmonic analysis and spherical functions
13-06 Proceedings, conferences, collections, etc. pertaining to commutative algebra
13A35 Characteristic $p$ methods (Frobenius endomorphism) and reduction to characteristic $p$; tight closure
16S38 Rings arising from noncommutative algebraic geometry
17B37 Quantum groups (quantized enveloping algebras) and related deformations
17B67 Kac-Moody (super)algebras; extended affine Lie algebras; toroidal Lie algebras
33C60 Hypergeometric integrals and functions defined by them ($E$, $G$, $H$ and $I$ functions)
33C67 Hypergeometric functions associated with root systems
33D45 Basic orthogonal polynomials and functions ($\text{Askey-Wilson}$ polynomials, etc.)
60J60 Diffusion processes
00B25 Proceedings of conferences of miscellaneous specific interest
00B30 Festschriften