

PUBLICATIONS

- 58** Quantized Covariant Differential Operators (Draft, approx. 45 pages, soon to be submitted) January 2019
- 57** Special Classes of Homomorphisms between generalized Verma modules for $\mathcal{U}_q(\mathfrak{su}(n, n))$ (10 pp) 2019 J. Phys.: Conf. Ser. **1194** 012055
- 56** The Center of $\mathcal{U}_q(\mathfrak{n}_\omega)$, Comm. Alg. 46 262–282 (2018)
- 55** Double Quantum Schubert Cells and Quantum Mutations. arXiv:1501.06137v1 [math.QA] (33 pages, under revision)
- 54** (with C. Pagani) Quantized Matrix Algebras and Quantum Seeds, J. of Linear and Multilinear Algebra 63, 713–753 (2015)
- 53** (with H. Zhang) Double-partition Quantum Cluster Algebras J. Algebra 372, 172–203 (2012)
- 52** Indecomposable finite-dimensional representations of a class of Lie algebras and Lie superalgebras p. 125–138, In "Supersymmetry in Mathematics and Physics: UCLA Los Angeles, USA 2010". Ed. by Ferrara, Fioresi, and Varadarajan. Lecture Notes in Mathematics 2027, Sep. 2011
- 51** (with H. Zhang) The Exponential Nature and Positivity Algebr. Represent. Theor. 9, 267–284 (2006)
- 50** Matrix Chain Models and their q -deformations. In Proceedings of 5th International Workshop "Lie Theory and Its Applications in Physics", 16 - 22 June 2003, Varna, Bulgaria. 377–391
- 49** (with C.-W. H. Lee) Matrix Chain Models and Kac-Moody Algebras "Vertex Operators and Kac-Moody algebras". Proceedings, Madras 2002, Contemp. Math. 343, 147–165, A.M.S.
- 48** Quantized symmetrizations and $*$ -products. In "Quantum Groups and Symmetries", Proceedings, Krakow, 2001, 396–403. World Scientific, Singapore.
- 47** (with C.-W. H. Lee) Unitary Irreducible Representations of a Lie Algebra for Matrix Chain Models. J. Math. Phys. 42, 3817–3838 (2001)
- 46** (with C.-W. H. Lee) Unitary Irreducible Representations of a Lie Algebra for Open Matrix Chains. In " Theoretical high energy physics; MRST 2000". AIP Conference Proceedings 541, 130–139 (2000) New York
- 45** Quantized Dirac operators. Czech. J. Phys. 50, 1265–1270 (2000)
- 44** Q-differential operators. Preprint (19pp) 1999 (<http://xxx.lanl.gov/abs/math.QA/9907009>)
- 43** (with S. Jøndrup) Quantized Rank R Matrices. J. Algebra 246, 70–96 (2001)
- 42** (with H. Zhang) Quantized Heisenberg Space. Algebras and Representation Theory 3, 151–174 (2000).
- 41** (with H. Zhang) A class of quadratic matrix algebras arising from the quantized enveloping algebra. J. Math. Phys. 41, 2310–2336 (2000)
- 40** (with H. Zhang) Cyclic representations of the quantum matrix algebras. Comm. Algebra 27, 493–510 (1999)
- 39** Unitarity of highest weight modules for quantum groups. Lett. Math. Phys. 42, 119–133 (1997)
- 38** (with A. Jensen, S. Jøndrup, and H. Zhang) Quadratic algebras of type AIII. I II III. Tsinghua Science and Technology 3, 1199–1202, 1203–1208, 1209–1212 (1998)
- 37** (with H. Zhang) The center of the Dipper Donkin quantized matrix algebra. Beiträge Algebra Geom. 38, 411–421 (1997)
- 36** (with H. Zhang) The center of the Quantized Matrix Algebra. J. Algebra 196, 458–474 (1997)
- 35** Differentialgeometri (Danish). Lecture notes for Geometri 3GE; 147 pp. (1996)

- 34** Quantized hermitian symmetric spaces. In: "Lie Theory and its Applications in Physics", 105-116, World Scientific, Singapore (1996)
- 33** Tensoring with small quantized representations. *J. Math. Phys.* 38, 4323-4335 (1997)
- 32** An intrinsic classification of the unitarizable highest weight modules as well as their associated varieties *Compositio Math.* 101, 313-352 (1996)
- 31** Gauss-Bonnet (In Danish) In : *Famøs s- 9-17 ("Side 9 sæningen")* (1994),
- 30** *Bevægelsens Geometri* (English: The geometry of motion). In : *Naturligvis.* p. 30-33 (1994)
- 29** The Full Set of Unitarizable Highest Weight Modules of Basic Classical Lie Superalgebras , *Memoirs of the A.M.S.* , Nr. 532, 116pp (1994)
- 28** A classification of the unitarizable highest weight modules for affine Lie superalgebras, *J. Functional Analysis* , 422-457 (1994)
- 27** (with B. Durhuus and R. Nest) Topological field theories from quantum 6j-symbols. In: "Topological and Geometrical Methods in Field Theory, Turku (1992)", 121-134, World Scientific, Singapore
- 26** (with B. Durhuus and R. Nest) A construction of topological quantum field theories from 6j-symbols, *Nucl. Physics B (Proc. Suppl.)* , 109-121 (1992)
- 25** (with B. Durhuus and R. Nest) Topological quantum field theories from 6j-symbols, *Rev. Math. Phys.* 15, 1-67 (1993)
- 24** (with V. Kac) A new class of unitarizable highest weight representations of infinite dimensional Lie algebras#2, *jour J. Functional analysis* 82, 69-90 (1989)
- 23** *Højeste-Vægt Moduler. Tensorprodukter, Unitaritet, Differentialoperatorer.* "Doktorafhandling" (Danish Doctoral Dissertation), March 1988
- 22** On the range of unitarity for highest weight representations of classical Lie superalgebras, In: "Symposium on Topological and Geometrical Methods in Field Theory, Espoo, 1986", 103-109, World Scientific, Singapore
- 21** A spin-off from highest weight representations; conformal covariants, in particular for $O(3, 2)$, In: "Symposium on conformal groups and structures, Proceedings, Clausthal 1985", *Lecture Notes in Physics* 261, 253-265 (1986)
- 20** Conformal covariants, *Publ. RIMS Kyoto University* 22, 345-364 (1986)
- 19** (with V. Kac) A new class of unitarizable highest weight representations of infinite dimensional Lie algebras, In: "Springer Lecture Notes in Physics 226, 1-20 (1985)
- 18** Subspace structures of holomorphic representations. In *Sixteen research reports by the Niels Bohr fellows of the royal Danish Academy of science and letters*, 22-33 (1985)
- 17** Basic covariant differential operators on hermitian symmetric spaces, *Ann. scient. Éc. Norm. Sup.* 18, 421-436 (1985)
- 16** (with M. Harris) Covariant differential operators. In *Group Theoretical Methods In Theoretical Physics, Proceedings, Istanbul 1982*, 16-34. *Lecture Notes in Physics* 180, Springer Verlag (1983)
- 15** Hermitian symmetric spaces and their unitary highest weight modules , *J. Functional Analysis* 52, 385-412 (1983)
- 14** Group theoretical aspects of the chronometric theory. In *Differential Geometric Methods in Mathematical Physics, Proceedings, Clausthal 1980; Lecture Notes In Mathematics* bf 905, 165-169, Springer Verlag (1982)
- 13** The last possible place of unitarity for certain highest weight modules, *Math. Ann.* 256, 439-447 (1981)

- 12** (with M. Harris) Singular holomorphic representations and singular modular forms, *Math. Ann.* 259, 227-244 (1983)
- 11** (with S. Paneitz, I. E. Segal, B. Speh and B. Ørsted) Covariant chronogeometry and extreme distances. II: Elementary particles, *Proc. Natl. Acad. Sci. U. S. A.* 78, 5261-5265(1981)
- 10** On singular holomorphic representations, *Invent. Math.* 62, 67-78 (1980)
- 9** (with M. Kon and I. E. Segal) Angular Momentum of the cosmic background radiation, *Phys. Rev. Letters* 42, 1788-1791 (1979)
- 8** Higher order tensor products of wave equations. In *Non-Commutative Harmonic Analysis, Proceedings, Marseille-Luminy France; Lecture notes in mathematics 728*, 97-115, Springer Verlag (1979)
- 7** (with M. Vergne) Restrictions and expansions of holomorphic representations, *J. Functional analysis* 34, 29-53 (1979)
- 6** (with I. E. Segal, B. Speh, M. Vergne and B. Ørsted) Symmetry and causality properties of physical fields, *Proc. Natl. Acad. Sci. U. S. A.* 75 , 1609-1611 (1978)
- 5** Tensor products, reproducing kernels, and power series, *J. Functional Analysis* 31, 293-305 (1979)
- 4** Intertwining differential operators for $Mp(n,R)$ and $SU(n,n)$, *Trans. Amer. Math. Soc.* 246, 311-337 (1978)
- 3** (with M. Vergne) Wave and Dirac operators, and representations of the conformal group, *J. Functional Analysis* 24, 52-106 (1977)
- 2** Conformal harmonic analysis and intertwining differential operators. In *Group Theoretical Methods in Physics*, pp. 573-576, Academic Press 1976
- 1** (with M. Goto) On intersecting geodesics. Preprint Series 1972/73 No. 27, Aarhus Universitet