

**BULGARIAN ACADEMY OF SCIENCES
INSTITUTE FOR NUCLEAR RESEARCH AND NUCLEAR ENERGY
Laboratory "Theory of Elementary Particles"**

APPENDIX 1: *Publication Activity 2011*

APPENDIX 1.1: List of Publications in 2011 (incl. ISSN & ISBN):

1.1.1. Publications in Scientific Journals

1.1.1.1. Publications in International Journals

1.1.1.1.1. Appeared in 2011

1. E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, "*Space-Time Compactification/Decompactification Transitions Via Lightlike Branes*", General Relativity & Gravitation 43 (2011) 1487-1513 [ISSN 0001-7701, IF 2.538].

2. E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, "*Asymptotically de Sitter and anti-de Sitter Black Holes with Confining Electric Potential*", Phys. Lett. B704 (2011) 230-233, erratum Phys. Lett. B705 (2011) 545 [ISSN 1874-415X, IF 5.255].

3. E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, "*Hiding Charge in a Wormhole*", The Open Nuclear and Particle Physics Journal 4 (2011) 27-34 [ISSN 1874-415X].

4. Changrim Ahn, **Plamen Bozhilov**, "*Three-point Correlation functions of Giant magnons with finite size*", Phys.Lett.B702 (2011) 286-290 [ISSN: 0370-2693, IF2010: 5,255]

5. Changrim Ahn, **Plamen Bozhilov**, "*Three-point Correlation Function of Giant Magnons in the Lunin-Maldacena background*", Phys.Rev.D84 (2011) 126011 [ISSN:1550-7998, IF2010: 4,964]

6. Changrim Ahn, **Plamen Bozhilov**, “*Finite-size Giant Magnons on $AdS_4 \times CP^3_{\gamma}$* ”, Phys.Lett.B703 (2011) 186-192 [ISSN: 0370-2693, IF2010: 5,255]
7. **Plamen Bozhilov**, “*More three-point correlators of giant magnons with finite size*“, JHEP **1108** (2011) 121 [ISSN:1126-6708, IF2010: 6,049]
8. **Plamen Bozhilov**, “*Three-point correlators: Finite-size giant magnons and singlet scalar operators on higher string levels*”, Nucl.Phys.**B855** (2011) 268-279 [ISSN: 0550-3213, IF2010: 4,642]
9. **B.V.Ivanov**, “*Self-gravitating spheres of anisotropic fluid in geodesic flow*”, Int.J.Mod.Phys.D 20 (2011) 319 [ISSN 0218-2718, IF 1.109]
10. A. Alekseev and **N. Ilieva**, *Quantum gauge fields and flat connections in 2-dimensional BF-theory*, Phys. Lett. **B 697** (2011) 488–492 (ISSN: 0370-2693, IF – 5.255).
11. **N.I. Stoilova** and J. Van der Jeugt, *An exactly solvable spin chain related to Hahn polynomials*, SIGMA **7** (2011) 033, 13 pp (ISSN 1815-0659, IF 0.856).
12. E.I. Jafarov, **N.I. Stoilova** and J. Van der Jeugt, *Finite oscillator models: the Hahn oscillator*, J. Phys. A: Math. Theor. **44** (2011) 265203, 15 pp (ISSN 1751-8113, IF 1.641).
13. E.I. Jafarov, **N.I. Stoilova** and J. Van der Jeugt, *The $su(2)_\alpha$ Hahn oscillator and a discrete Hahn-Fourier transform*, J. Phys. A: Math. Theor. **44** (2011) 355205, 18 pp (ISSN 1751-8113, IF 1.641).
14. E. Leader, A. V. Sidorov and **D. B. Stamenov**, *A Possible Resolution of the Strange Quark Polarization Puzzle* ?Phys. Rev. **D84** (2011) 014002, 5 pp (ISSN 1550-7998, IF – 4.964).
15. A. Arhrib, **E. Christova**, H. Eberl and **E. Ginina**, *CP violation in charged Higgs production and decays in the Complex Two Higgs Doublet Model*, JHEP **04** (2011) 089 [ISSN 1126-6708, IF 6,049]

16. M. Henkel, **S. Stoimenov**, *On non-local representations of the ageing algebra*, Nucl. Phys. B847:612-627, 2011; ISSN 0550-3213, IF 4.642.

17. B. Abdesselam, A. Chakrabarti, **V.K. Dobrev** and **S.G. Mihov**, *Exotic Bialgebras from 9x9 Unitary Braid Matrices*, Physics of Atomic Nuclei, **74**, No. 6, 824-831 (851-857 Russian edition) (2011) ISSN 1063-7788; IF 0.563.

18. **V.S. Gerdjikov**, R.I. Ivanov, **A.V. Kyuldjiev**, *On the N-wave equations and soliton interactions in two and three dimensions*, Wave Motion, **48** (2011) 791–804 (ISSN 0165-2125, IF=1.505)

19. **N. Minkov**, **S. Drenska**, M. Strecker and W. Scheid, *Parity effects in nuclear collective and single particle motion*, Int.J.Mod.Phys. E 20 (2011) 228-234; ISSN 0218-3013, IF 0.695.

1.1.1.1.2. submitted/accepted for publication in 2011

1. E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, *“Hiding and Confining Charges via “Tube-like” Wormholes”*, to appear in Int.J. Mod. Phys. A (arxiv:1109.0453[hep-th]) [ISSN 0217-751X , IF 1.000].

2. **B. Damyanov**, *“On models of singularities and their products in Colombeau algebra $G(R)$ ”*, Integral Transforms and Special Functions, vol.23/2012 (letter by editor).

3. M. Dubois-Violette and **T. Popov**, *Homotopy Transfer Theorem and Young Tableaux*, to appear in Particles and Nuclei, Letters [ISSN 1814-5957]

4. P. Furlan, **L. Hadjiivanov**, *Quantum $su(n)_k$ monodromy matrices*, arXiv:1111.2037[math-ph] (2011)

5. **L. Hadjiivanov**, P. Furlan, *On quantum WZNW monodromy matrix - factorization, diagonalization, and determinant*, arXiv:1112.6274[math-ph] (2011)

6. **P. Dalakov**, *A Universal Family of Deformations for the Uniformising Higgs bundle*, arXiv math.AG 1111.6457 (2011)
7. **N.M. Nikolov**, S. Zahariev, *Transferring curved A-infinity structures and Chern classes*, arXiv:1101.2080
8. E. Lilkova, G. Nacheva, P. Petkov, P. Petkov, S. Markov, **N. Ilieva**, and L. Litov, “*Metadynamics study of mutant human interferon gamma forms*”, to appear in *Computers and Mathematics with Applications*, 2011 (ISSN 0898-1221, IF 1.532)
9. G. Nacheva, E. Lilkova, P. Petkov, P. Petkov, **N. Ilieva**, S. Markov, S. Petrov, I. Ivanov, and L. Litov, “*In silico classification of human interferon-gamma derivatives*”, submitted to *Biotechnology and Bioprocess Engineering*, 2011 (ISSN 1226-8372, IF 1.004).
10. **V.K. Dobrev**, *Group-Theoretical Classification of BPS and Possibly Protected States in D=4 Conformal Supersymmetry*, Nucl. Phys. B, to appear, ISSN 0550-3213, IF 4.642.
11. **V.B.Petkova**, *Topological defects in CFT*, Physics of Atomic Nuclei, to appear, ISSN 1063-7788; IF 0.563.
12. **V.K. Dobrev**, *Invariant Differential Operators for Non-Compact Lie Groups: the Main SU(n,n) Cases*, Physics of Atomic Nuclei, to appear, ISSN 1063-7788; IF 0.563.
13. **V.K. Dobrev**, *Group-Theoretical Classification of BPS States in D=4 Conformal Supersymmetry: the Case of (1/N)-BPS*, Physics of Particles and Nuclei, to appear, ISSN 1063-7796; IF 1.100.
14. **Str. Mavrodiev et.al.**, *Solar dynamo as host power pacemaker of the Earth global climate*, arXiv:1101.2221[astro-ph.EP] (2011)
15. **Str. Mavrodiev et.al.**, *KamLAND-experiment and Soliton-like Nuclear Georeactor. Part I. Comparison of Theory with Experiment*, arXiv:1011.3568v3[astro-ph.EP] (2011)

16. B. Damyanov, “On balanced products of distributions $x_{+/\pm}$ in Colombeau algebra $G(R)$ ”,
<http://front.math.ucdavis.edu/math.FA/0203166>

17. A. Bartl, H. Eberl, E. Ginina, B. Herrmann, K. Hidaka, W. Majerotto, W. Porod, *Flavour violating gluino three-body decays at LHC*, arXiv:1107.2775[hep-ph]

18. N. Minkov, S. Drenska, M. Strecker and W. Scheid, *Nuclear alternating-parity bands and transition rates in a model of coherent quadrupole-octupole motion*, to appear in *Int. J. Mod. Phys. E*; ISSN 0218-3013, IF 0.695.

1.1.1.2. Publications in National Journals

1.1.1.2.1. Appeared in 2011

1. I. Todorov, *Clifford Algebras and Spinors*, *Bulg. J. Phys.* **38** (2011) 3–28 (ISSN: 1310-0157).

2. V.K. Dobrev, *Representations and q -Deformation of Anti de Sitter Symmetry*, *Bulg. J. Phys.* **38** (2011) 252–260; ISSN 1310-0157.

3. A. Alekseev, N. Ilieva, *Quantum Equations of Motion in BF Theory with Sources*, *Bulg. J. Phys.* **38** (2011) 293–302 (ISSN: 1310-0157).

4. B. Damyanov, “On modelling of singularities and products of singularities in Colombeau algebra $G(R)$ ”, *C. R. Acad. Bulg. Sci.*, **64** (2011), 1378-1382 [ISSN 1310-1331, IF 0.219]

1.1.1.2.2. submitted/accepted for publication in 2011

1.1.2. Publications of Full-Text Contributions in Conference Proceedings

1.1.2.1. Publications in International Conference Proceedings

1.1.2.1.1. Appeared in 2011

1. E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, "*Space-Time Compactification, Non-Singular Black Holes, Wormholes and Braneworlds via Lightlike Branes*", in "Sixth Meeting in Modern Mathematical Physics", B. Dragovich and Z. Rakic (eds.), SFIN XXIV A1, Belgrade Inst. Phys. Press (2011) [ISBN 978-86-82441-30-4].
2. P. Petkov, E. Lilkova, P. Petkov, **N. Ilieva**, L. Litov, *Application of Metadynamics for Investigation of Human Interferon Gamma Mutants*, Sixth International Scientific Conference – Computer Science'2011, 01-03 September 2011, Ohrid, Macedonia, **ISBN**: 978-954-438-914-7, pp. 347–352.
3. D. Grancharov, P. Petkov, E. Lilkova, **N. Ilieva**, L. Litov, *Investigation of Binding Affinity of hIFN-gamma Mutated Forms with the Rosetta Suite of Programs*, Sixth International Scientific Conference – Computer Science'2011, 01-03 September 2011, Ohrid, Macedonia, **ISBN**: 978-954-438-914-7, pp. 353–357.
4. **N.I. Stoilova** and J. Van der Jeugt, *Explicit representations of classical Lie superalgebras in a Gelfand-Zetlin basis*, Banach Center Publications **93** (2011), 83-93, ISBN 978-83-86806-11-9.
5. E. Leader, A. V. Sidorov and **D. B. Stamenov**, *The role of semi inclusive DIS data in determining polarized PDFs*. J. Phys. Conf. Ser. **295** (2011) 012054 (5pp), Proceedings of the 19th International Spin Physics Symposium (SPIN2010)
6. N. Aizawa and **V.K. Dobrev**, *Non-Relativistic Holography in Schroedinger Setting*, in "Sixth Meeting in Modern Mathematical Physics", B. Dragovich and Z. Rakic (eds.), SFIN XXIV A1 (Institute of Physics, Belgrade, 2011, ISBN 978-86-82441-30-4) pp. 11-25.

1.1.2.1.2. submitted/accepted for publication in 2011

1. E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, "*Lightlike Braneworlds in Anti-de Sitter Bulk Space-time*", arxiv:1112.2872[hep-th] (2011), to appear in **Springer Proceedings in Mathematics**, ed. V. Dobrev, Springer (2012) [ISSN: 2190-5614]

2. E. Leader, A. V. Sidorov and **D. B. Stamenov**, *The Role of Fragmentation Functions in Determining the Polarized Sea Quark Densities*, to appear in the Proceedings of the 19th International Workshop on Deep Inelastic Scattering and Related Subjects (DIS2011), Newport News, VA, April 11 – 15, 2011, USA.
3. E. Leader, A. V. Sidorov and **D. B. Stamenov**, *The strange quark polarization puzzle*, to appear in the Proceedings of the XIV International Workshop on High Energy Spin Physics (DSPIN-11), September 20 - 24, 2011, Dubna, Russia.
4. S. Albino, **E. Christova** and E. Leader, *On model independent extraction of the Kaon Fragmentation Function*, *arXiv:1102.2305*[hep-ph] (2011)
5. **S. Stoimenov** and M. Henkel, *Non-local space-time transformations generated from the ageing algebra*, to appear in Proceedings of the IX International Workshop "Lie Theory and Its Applications in Physics", Springer Proceedings in Mathematics (2012)
6. N. Aizawa and **V.K. Dobrev**, *Schrödinger Algebra and Non-Relativistic Holography*, Invited talk (by V.K.D.) at the VII International Symposium "Quantum Theory and Symmetries" (Prague, 2011), to appear in Proceedings, Journal of Physics Conference Series.
7. M. Dubois-Violette and **T. Popov**, *Young Tableaux and homotopy algebra $\mathcal{S}C_{\infty}$* , to appear in Proceedings of the IX International Workshop "Lie Theory and Its Applications in Physics", Springer Proceedings in Mathematics (2012)
8. **N.M. Nikolov**, R. Stora, **I. Todorov**, *Configuration space renormalization and residues of primitively divergent graphs*, to appear in Proceedings of the IX International Workshop "Lie Theory and Its Applications in Physics", Springer Proceedings in Mathematics (2012)
9. **N.M. Nikolov**, R. Stora, **I. Todorov**, *Configuration Space Renormalization of Massless QFT as an Extension Problem for Associate Homogeneous Distributions*, IHES/P-11-07, to appear in the Proceedings of the International Workshop "Supersymmetries and Quantum Symmetries" (SQS'2011).

10. J.-L. Loday, N.M. Nikolov, *Operadic construction of renormalization group*, to appear in Proceedings of the IX International Workshop "Lie Theory and Its Applications in Physics", Springer Proceedings in Mathematics (2012)

11. N. Minkov, S. Drenska, M. Strecker and W. Scheid, *Energies and transition probabilities in nuclear alternating-parity bands spectra*, Nuclear Theory, Vol. 30, Proceedings of the 30-th International Workshop on Nuclear Theory (Rila, Bulgaria 2011), eds. A. Georgieva, N. Minkov, Heron Press, Sofia.

1.1.2.2 Publications in National Conference Proceedings

- 1.1.2.2.1. Appeared in 2011
- 1.1.2.2.2. submitted/accepted for publication in 2011

1. A.V. Kyuldjiev, *Manev's problem, 87 years later*, In Proceedings of "Modern Problems of the Applied Electromagnetism", V. Tarnovo, March 2011

1.1.3. Advanced Textbooks and monographs

- 1.1.3.1. published abroad
- 1.1.3.2. published in Bulgaria

1.1.4. Popular-Level Scientific Publications

- 1.1.4.1. books & brochures
- 1.1.4.2. articles

1. I. Todorov, *Pascual Jordan - Forgotten creator of quantum theory*, World of Physics, 34 (2011) 439-458

2. N. Stoilova, *Acad. Chavdar Palev's 75 years anniversary*, World of Physics, 34 (2011) 229-230

1.1.4.3. Undergraduate Textbooks and Textbooks for Highschools

1.1.5. INDEPENDENT CITATIONS of Works of the Laboratory Members in International Scientific Publications appeared in 2011

Cited Work: **V.K. Dobrev, E.Ch. Christova, V.B. Petkova, D.B. Stamenov,**

Conformal covariant operator product expansion of two spin 1/2 fields,
Bulg. J. Phys. 1, No 1, (1974) 42-57; ISSN 1310-0157.

1. R.C. Myers, A. Sinha, Holographic c-theorems in arbitrary dimensions.
JHEP 01 (2011) 125; ISSN 1126-6708.
2. M.V. Chizhov, Theory and phenomenology of spin 1 chiral particles,
Physica elementarnyh chastic i atomnogo yadra, 42 (2011) v. 1, p. 171 (in Russian), Phys. Part. Nucl. 42 (2011) 93-183 (English); ISSN 1063-7796.

Cited Work: **V.K. Dobrev, V.B. Petkova, S.G. Petrova, I.T. Todorov,**

Dynamical derivation of vacuum operator product expansion in euclidean conformal quantum field theory, Phys. Rev. D13 (1976) 887-912; ISSN 0556-2821.

3. J. Penedones, Writing CFT correlation functions as AdS scattering amplitudes,
JHEP 03 (2011) 025; ISSN 1126-6708.
4. A.Liam Fitzpatrick, J. Kaplan, J. Penedones, S. Raju, B.C. van Rees,
A Natural Language for AdS/CFT Correlators, arXiv:1107.1499 [hep-th] (2011).
5. M. S. Costa, J. Penedones, D. Poland, S. Rychkov,
Spinning conformal correlators, arXiv:1107.3554 [hep-th] (2011).
6. F.A. Dolan and H. Osborn, Conformal partial waves: Further mathematical results, arXiv:1108.6194 [hep-th] (2011).
7. M. S. Costa, J. Penedones, D. Poland, S. Rychkov,
Spinning conformal blocks, arXiv:1109.6321 [hep-th] (2011).

Cited Work: **V.K. Dobrev, G. Mack, V.B. Petkova, S.G. Petrova, I.T.**

Todorov, *Harmonic analysis on the n -dimensional Lorentz group and its application to conformal quantum field theory*, Lecture Notes in Physics, vol. 63 (1977); ISBN 3-540-08150-X.

8. R.C. Myers, A. Sinha, Holographic c-theorems in arbitrary dimensions, JHEP 01 (2011) 125; ISSN 1126-6708.
9. M. S. Costa, J. Penedones, D. Poland, S. Rychkov, Spinning conformal correlators, arXiv:1107.3554 [hep-th] (2011).
10. M. S. Costa, J. Penedones, D. Poland, S. Rychkov, Spinning conformal blocks, arXiv:1109.6321 [hep-th] (2011).
11. G. Zhang, Discrete components in restriction of unitary representations of rank one semisimple Lie groups, arXiv:1111.6406v1 [math.RT] (2011).

Cited Work: **I.T. Todorov, M.C. Mintchev, V.B. Petkova**, *Conformal invariance in quantum field theory*, Scuola Normale Superiore Pisa, (1978).

12. R.C. Myers, A. Sinha, Holographic c-theorems in arbitrary dimensions. JHEP 01 (2011) 125; ISSN 1126-6708.
13. M.V. Chizhov, Theory and phenomenology of spin 1 chiral particles, Physica elementarnyh chastic i atomnogo yadra, 42 (2011) v. 1, p. 171 (in Russian), Phys. Part. Nucl. 42 (2011) 93-183 (English); ISSN 1063-7796.

Cited Work: G. Mack and **V.B. Petkova**, Comparison of lattice gauge theories with gauge groups $SU(2)$ and Z_2 , Ann. Phys. 123 (1979) 442-467; ISSN 0003-4916.

14. R. Hollwieser, M. Faber and Urs M. Heller, Violations of the lattice index theorem for spherical center vortices, 9th International Conference on Quark Confinement and the Hadron Spectrum, QCHS IX; Madrid; AIP Conference Proceedings, v. 1343 (2011) 227-229; ISSN 0094-243X.
15. M. Engelhardt, Center vortex model for the infrared sector of $SU(3)$ Yang-Mills theory: Topological susceptibility, Phys. Rev. D83 (2011) 025015 ISSN 0556-2821.
16. S. Deldar, H. Lookzadeh, S. Mohsen, H. Nejad, Center vortex model and the $G(2)$ gauge group,

9th International Conference on Quark Confinement and the Hadron Spectrum, QCHS IX; AIP Conference Proceedings vol. 1343 (2011) 224-226; ISSN 0094-243X.

17. R. Hollwieser, M. Faber, U.M. Heller,
Intersections of thick Center Vortices, Dirac Eigenmodes and Fractional Topological Charge in SU(2) Lattice Gauge Theory, JHEP 06 (2011) 052; ISSN 1126-6708.

Cited Work: G. Mack and **V.B. Petkova**, Sufficient condition for confinement of static quarks by a vortex condensation mechanism, Ann. Phys. 125 (1980) 117-134; ISSN 0003-4916.

18. S. Deldar, H. Lookzadeh, S. Mohsen, H. Nejad,
Center vortex model and the G(2) gauge group,
9th International Conference on Quark Confinement and the Hadron Spectrum,
QCHS IX; Madrid; AIP conference proceedings vol. 1343 (2011) 224-226; ISSN 0094-243X.

Cited Work: G. Mack and **V.B. Petkova**, Z_2 - monopoles in the standard SU(2) lattice gauge theory model, Zeit. Phys. C12 (1982), 177-184; ISSN 0170-9739.

19. S. Deldar, H. Lookzadeh, S. Mohsen, H. Nejad,
Center vortex model and the G(2) gauge group,
9th International Conference on Quark Confinement and the Hadron Spectrum,
QCHS IX; Madrid; AIP conference proceedings vol. 1343 (2011) 224-226; ISSN 0094-243X.

Cited Work: **V.K. Dobrev**, **V.B. Petkova**, On the group-theoretical approach to extended conformal supersymmetry: classification of multiplets, Lett. Math. Phys. 9 (1985) 287-298; ISSN 0377-9017.

20. D. Volin, Quantum integrability and functional equations.
Applications to the spectral problem of AdS/CFT and two-dimensional sigma models, Thèse de Doctorat, Université Paris-XI,
Institut de Physique Théorique,
J. Phys. A 44 (2011) 124003; ISSN 1751-8113.
21. D. Serban, Integrability and AdS/CFT correspondence,

Memoire D'Habilitation,

J. Phys. A 44 (2011) 124001; ISSN 1751-8113.

22. H. Knuth, On invariants and scalar chiral correlation functions in N=1 superconformal field theories, Int. J. Mod. Phys. A 26 (2011) 2007; ISSN 0217-751X.
23. S. Nawata, Localization of N=4 Superconformal Field Theory on $S^1 \times S^3$ and Index, JHEP 11 (2011) 144; ISSN 1126-6708.
24. V.P. Spiridonov & G.S. Vartanov, Elliptic hypergeometry of supersymmetric dualities II. Orthogonal groups, knots, and vortices, arXiv:1107.5788 [hep-th] (2011).

Cited Work: **V.K. Dobrev, V.B. Petkova**, On the group-theoretical approach to extended conformal supersymmetry : function space realizations and invariant differential operators, Fortschr. Phys. 35 (1987) 537-572; ISSN 0015-8208.

25. H. Knuth, On invariants and scalar chiral correlation functions in N=1 superconformal field theories, Int. J. Mod. Phys. A 26 (2011) 2007 ISSN 0217-751X.
26. S. Nawata, Localization of N=4 Superconformal Field Theory on $S^1 \times S^3$ and Index, JHEP 11 (2011) 144; ISSN 1126-6708.
27. A. Gadde, L. Rastelli, S.S. Razamat and W. Yan, On the Superconformal Index of N=1 IR Fixed Points: A Holographic Check, JHEP 03 (2011) 041; ISSN 1126-6708.
27. P. Liendo, E. Pomoni, L. Rastelli, The Complete One-Loop Dilation Operator of N=2 SuperConformal QCD, arXiv:1105.3972 [hep-th] (2011).
29. A. Gadde, L. Rastelli, S.S. Razamat, and W. Yan, Gauge Theories and Macdonald Polynomials, arXiv:1110.3740 [hep-th] (2011).
30. T. Creutzig, P. Gao, A. R. Linshaw, Fermionic Coset, Critical Level $W^{(2)}_4$ -Algebra and Higher Spins, arXiv:1111.6603 [hep-th] (2011).

Cited Work: **V.K. Dobrev, V.B. Petkova**, All positive energy unitary irreducible representations of the extended conformal supersymmetry, Phys. Lett. B162 (1985) 127-132; ISSN 0370-2693.

31. D. Volin, Quantum integrability and functional equations.
Applications to the spectral problem of AdS/CFT and two-dimensional sigma models, Thèse de Doctorat, Université Paris-XI, Institut de Physique Théorique,
J. Phys. A 44 (2011) 124003; ISSN 1751-8113.
32. D. Serban, Integrability and AdS/CFT correspondence,
Memoire D'Habilitation,
J. Phys. A 44 (2011) 124001; ISSN 1751-8113.
33. D. Poland, D. Simmons-Duffin,
Bounds on 4D Conformal and Superconformal Field Theories,
JHEP 05 (2011) 017; ISSN 1126-6708.
34. H. Knuth, On invariants and scalar chiral correlation functions in N=1 superconformal field theories, Int. J of Mod. Phys. A26 (2011) 2007 ISSN 0217-751X.
35. Th.A. Rytov, R. Shrock, Higher-Loop Corrections to the Infrared Evolution of a Gauge Theory with Fermions, Phys. Rev. D 83, 056011 (2011); ISSN 0556-2821.
36. S. Nawata, Localization of N=4 Superconformal Field Theory on $S^1 \times S^3$ and Index, JHEP 11 (2011) 144; ISSN 1126-6708.
37. J.R. Galloway, Stabilizing the weak scale with conformal dynamics: A Survey of model building approaches, (PhD thesis, University of California, Davis) UMI-3429584. May 2011. 112 p.
38. A. Gadde, L. Rastelli, S.S. Razamat and W.Yan,
On the Superconformal Index of N=1 IR Fixed Points: A Holographic Check, JHEP 1103:041, 2011; ISSN 1126-6708.
39. P. Liendo, E. Pomoni, L. Rastelli, The Complete One-Loop Dilation Operator of N=2 SuperConformal QCD, arXiv:1105.3972 [hep-th] (2011).
40. G. Bossard, P.S. Howe, K.S. Stelle, P. Vanhove,
The vanishing volume of D=4 superspace, arXiv:1105.6087 [hep-th] (2011).
41. A. Vichi, Improved bounds for CFT's with global symmetries, arXiv:1106.4037 [hep-th] (2011).
42. T. Tesileanu, Charged black holes and the ADS/CFT correspondence,
PhD} thesis, Princeton, 2011.

- 43. A. Gadde, L. Rastelli, S.S. Razamat, and W. Yan, Gauge Theories and Macdonald Polynomials, arXiv:1110.3740 [hep-th] [hep-th] (2011).
- 44. W.D. Goldberger, W. Skiba & M. Son, Superembedding methods for 4d N=1 SCFTs, arXiv:1112.0325 [hep-th] [hep-th] (2011).

Cited Work: **V.K. Dobrev**, Characters of the unitarizable highest weight modules over the N=2 superconformal algebras, Phys. Lett. 186B (1987) 43-51; ISSN 0370-2693.

45. Oliver Gray,

On the complete classification of the unitary N=2 minimal superconformal field theories, arXiv:0812.1318v3, 25 Nov 2011, CMP to appear.

46. Yuji Sugawara,

Comments on Non-holomorphic Modular Forms and Non-compact Superconformal Field Theories, arXiv:1109.3365v1 [hep-th] (2011).

Cited Work: **V.K. Dobrev**, Canonical construction of intertwining differential operators associated with representations of real semisimple Lie groups, Rep. Math. Phys. 25 (1988) 159-181; ISSN 0034-4877.

47. N. Aizawa, Lowest Weight Representations of Super Schrodinger Algebras in One Dimensional Space, J. Math. Phys. 52:013509 (2011); ISSN 0022-2488.

48. N. Aizawa & Ph.S. Isaac, On irreducible representations of the exotic conformal Galilei algebra, J. Phys. A: Math. Theor. 44 (2011) 035401; ISSN 1751-8113.

49. N. Aizawa, Lowest weight representations of super Schrodinger algebras in low dimensional spacetime, J. Math. Phys. 52, 013509 (2011) ; ISSN 0022-2488.

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