

Списък на научните публикации

В списания с импакт фактор:

1. [1.1.5] E.I. Guendelman, **E. Nissimov and S. Pacheva**, Gauss-Bonnet Gravity in D=4 Without Gauss-Bonnet Coupling to Matter -Cosmological Implications, Modern Physics Letters A34 (2019) 1950051, <https://www.worldscientific.com/doi/10.1142/S0217732319500512> , **IF: 1.308, Q2** (подкрепа от настоящия договор 70%)
2. [1.1.8] D. Benisty, E.I. Guendelman, **E. Nissimov and S. Pacheva**, Dynamically Generated Inflation from Non-Riemannian Volume Forms, European Physical Journal C79 (2019) 806, <https://link.springer.com/article/10.1140/epjc/s10052-019-7310-6> , **IF: 4.59, Q1** (подкрепа от настоящия договор 70%)
3. [1.1.10] **D. Staicova**, M. Stoilov, Cosmological solutions from multi-measure model with inflaton field, ArXiv:1806.08199, <https://arxiv.org/abs/1806.08199> and Symmetry, 11 (11), 1387,2019, **IF: 2.143, Q2** <https://www.mdpi.com/2073-8994/11/11/1387>, (подкрепа от настоящия договор 33%)
4. [1.2.1] D. Benisty, E.I. Guendelman, **E. Nissimov and S. Pacheva**, Dynamically Generated Inflationary Two-Field Potential via Non-Riemannian Volume Forms", Nuclear Physics B951 (2020) 114907, **IF: 5.105, Q1** <https://www.sciencedirect.com/science/article/pii/S0550321319303931?via%3Dihub> (подкрепа от настоящия договор 70%)
5. [1.2.3] D. Benisty, E.I. Guendelman, **E. Nissimov and S. Pacheva**, Dynamically Generated Inflationary Lambda-CDM, Symmetry 2020, 12, 481 (Special Issue "Selected Papers: 10th Mathematical Physics Meeting", ed. B. Dragovich), doi:10.3390/sym12030481, https://www.mdpi.com/2073-8994/12/3/481?type=check_update&version=1, **IF: 2.713, Q2** (подкрепа от настоящия договор 50%)
6. [1.2.4] D. Benisty, E.I. Guendelman, **E. Nissimov and S. Pacheva**, Quintessential Inflation with Dynamical Higgs Effect Generation as a Purely Affine Gravity", Symmetry 12 (2020) 734 (Special Issue "Global and Local Scale Symmetry in Gravitation and Cosmology", ed. E. Guendelman), <https://www.mdpi.com/2073-8994/12/5/734> , **IF: 2.713, Q2** (подкрепа от настоящия договор 70%)
7. [1.2.5] D. Benisty, E.I. Guendelman, **E. Nissimov and S. Pacheva**, LambdaCDM as a Noether Symmetry in Cosmology, International Journal of Modern Physics D29 (2020), doi:10.1142/S0218271820501047, <https://www.worldscientific.com/doi/abs/10.1142/S0218271820501047>, **IF: 2.461, Q2** (подкрепа от настоящия договор 70%)

8. [1.2.6] D. Benisty, E.I. Guendelman, A. Kaganovich, **E. Nissimov** and **S. Pacheva**, Non-Canonical Volume-Form Formulation of Modified Gravity Theories and Cosmology, European Physics Journal Plus 136 (2021) 46, <https://link.springer.com/article/10.1140/epjp/s13360-020-01048-6> , IF: 3.911, Q1 (подкрепа от настоящия договор 70%)

9. [1.2.7] **D. Staicova**, M. Stoilov, Cosmology from multimeasure multifield model, International Journal of Modern Physics A34, 1950099 (2019), <https://www.worldscientific.com/doi/abs/10.1142/S0217751X19500994> , IF: 1.308, Q2 (процент финансиране от договора 33%)

10. [1.2.9] David Benisty, **Denitsa Staicova**, Testing Late Time Cosmic Acceleration with uncorrelated Baryon Acoustic Oscillations dataset, Astronomy&Astrophysics 647, A38 (2021), https://www.aanda.org/articles/aa/full_html/2021/03/aa39502-20/aa39502-20.html , IF: 5.802, Q1 (процент финансиране от договора 33%)

11. [2.1.3] H. Dimov, **R. C. Rashkov**, and T. Vetsov, Thermodynamic information geometry and complexity growth of a warped AdS black hole and the warped AdS₃/CFT₂ correspondence, Phys. Rev. D 99, 126007 (2019), (33% DN-18/1) <https://arxiv.org/abs/1902.02433>, <https://doi.org/10.1103/PhysRevD.99.126007> IF: 5.296, Q1

12. [2.2.1] H. Dimov, M. Radomirov, **R.C. Rashkov** and T. Vetsov, On pulsating strings in Schrödinger backgrounds, JHEP 10 (2019), 094, <https://arxiv.org/abs/1903.07444>, [https://doi.org/10.1007/JHEP10\(2019\)094](https://doi.org/10.1007/JHEP10(2019)094) , IF: 5.810, Q1 (No. 13 от Етап 1 - публикувана) (50% DN-18/1, 50% H-28/5)

13. [2.2.2] **R.C. Rashkov**, On some (integrable) structures in low-dimensional holography, Nucl. Phys. B 951 (2020), 114889, <https://doi.org/10.1016/j.nuclphysb.2019.114889> , IF: 2.759, Q1 (No. 14 от Етап 1 - публикувана) (50% DN-18/1, 50% H-28/5)

14. [2.2.3] A. Mironov, V. Mishnyakov, A. Morozov and **R. Rashkov**, Matrix model partition function by a single constraint, Eur. Phys. J. C 81, no.12, 1140 (2021), <https://doi.org/10.1140/epjc/s10052-021-09912-0> , IF: 4.590, Q1 (50% DN-18/1, 50% H-28/5)

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16. [2.2.5] A. Golubtsova, H. Dimov, I. Iliev, M. Radomirov, **R. C. Rashkov**, T. Vetsov, More on Schrodinger holography, JHEP, vol: 8, issue: 090, 2020, [https://doi.org/10.1007/JHEP08\(2020\)090](https://doi.org/10.1007/JHEP08(2020)090) , IF: 5.810, Q1 (50% DN-18/1, 50% H-28/5)

17. [2.2.6] Dimov H., **Rashkov R. C.**, Vetsov T., Remarks on fields with a holographic dual, **Annals of the University of Craiova, Physics Volume 30**, Pages 35 – 51, 2020, http://cis01.central.ucv.ro/pauc/vol/2020_30_part2/4_Rashkov.pdf , **IF: 0.95, Q4** (50% DN-18/1, 50% H-28/5)
18. [2.2.7] A. Golubtsova, H. Dimov, I. Iliev, M. Radomirov, **R. C. Rashkov**, T. Vetsov, Pulsating strings in $Schr_5 \times T^{1,1}$ background, **J. Phys. A: Math. Theor.** vol: **54**, issue: 3, 2021, <https://doi.org/10.1088/1751-8121/abc7e9> , **IF: 2.132, Q1** (50% DN-18/1, 50% H-28/5)
19. [2.2.8] H. Dimov, I. N. Iliev, M. Radomirov, **R. C. Rashkov**, T. Vetsov, Holographic Fisher information metric in Schrödinger spacetime, **Eur. Phys. J. Plus** (2021) 136:1128, <https://doi.org/10.1140/epjp/s13360-021-02109-0> , **IF: 3.911, Q2** (50% DN-18/1, 50% H-28/5)
20. [3.1.1] **V.K. Dobrev**, Multiparameter Quantum Group and Quantum Minkowski Space-Time, **Physics of Particles and Nuclei**, 49, No. 5, (2018) 818–822. ISSN 1063-7796, **IF: 0.786, Q4**, <https://link.springer.com/article/10.1134%2FS1063779618050180> (подкрепа от настоящия договор 70%)
21. [3.1.2] **V.K. Dobrev**, Representations of Multiparameter Quantum Groups, **Physics of Atomic Nuclei**, 81, No. 6, (2018) 826–831. ISSN 1063-7788, **IF: 0.524, Q4**, <https://link.springer.com/article/10.1134%2FS1063778818060121> (подкрепа от настоящия договор 50%)
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23. [3.1.6] I. Kostov, **V.B. Petkova**, D. Serban, Determinant formula for the octagon form factor in $N = 4$ SYM, **Phys. Rev. Lett.** **122** (2019), 231601, arXiv:1903.05038, **IF: 8.839, Q1** <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.122.231601> (подкрепа от настоящия договор 50%)
24. [3.1.7] I. Kostov, **V.B. Petkova**, D. Serban, The octagon as a determinant, **JHEP** **11** (2019) 178, arXiv:1905.11467; **IF= 5.810, Q1** [https://link.springer.com/article/10.1007/JHEP11\(2019\)178](https://link.springer.com/article/10.1007/JHEP11(2019)178) (подкрепа от настоящия договор 50%)
25. [3.1.8] **N.I. Stoilova** and J. Van der Jeugt, The $Z_2 \times Z_2$ -graded Lie superalgebra $pso(2m+1|2n)$ and new parastatistics representations, **J. Phys. A: Math. Theor.** 51, (2018)

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26. [3.2.1] **V.K. Dobrev**, Heisenberg Parabolic Subgroups of Exceptional Noncompact $G_{2(2)}$ and Invariant Differential Operators, *Symmetry* 2022, **14**, (4) 660. **IF: 2.713, Q2**; SJR 0.54 <https://doi.org/10.3390/sym14040660> (подкрепа от настоящия договор 90%)
27. [3.2.3] N. Aizawa, **V.K. Dobrev**, S. Doi, Classification of the Reducible Verma Modules over the Jacobi Algebra G_2 , *J. Phys. A.* **54** (2021) 475202. **IF: 2.132, Q2** <https://iopscience.iop.org/article/10.1088/1751-8121/ac2a05> (подкрепа от настоящия договор 90%)
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29. [3.2.9] **V.K. Dobrev**, Tenfold Way for Holography : AdS/CFT and Beyond, *Int. J. Mod. Phys. A*36, (07), (2021) 2150049. **IF: 1,381, Q4** <https://doi.org/10.1142/S0217751X21500494> (подкрепа от настоящия договор (90%))
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32. [1.1.1] E.I. Guendelman, **E. Nissimov and S. Pacheva**, Wheeler-DeWitt Quantization of Gravity Models of Unified Dark Energy and Dark Matter, *Springer Proceedings in Mathematics and Statistics v.255: Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics*, vol.2, ed. V. Dobrev, pp.99-114 (Springer, Tokyo, Heidelberg) 2018, https://doi.org/10.1007/978-981-13-2179-5_7, **SJR 0.161** (подкрепа от настоящия договор 70%)
33. [1.1.4] E.I. Guendelman, **E. Nissimov and S. Pacheva**, Modified Gravity and Inflation Assisted Dynamical Generation of Charge Confinement and Electroweak Symmetry Breaking in Cosmology, *AIP Conference Proceedings* 2075, 090030 (2019),

- <https://aip.scitation.org/doi/pdf/10.1063/1.5091244> , **SJR 0.18** (подкрепа от настоящия договор 70%)
34. [1.1.7] D. Benisty, E.I. Guendelman, A. Kaganovich, **E. Nissimov and S. Pacheva**, Modified Gravity Theories Based on the Non-Canonical Volume-Form Formalism, in Springer Proceedings in Mathematics and Statistics, vol.335, pp.239-252, ed. V Dobrev, Springer (2020), https://link.springer.com/chapter/10.1007/978-981-15-7775-8_15, **SJR 0.161** (подкрепа от настоящия договор 70%)
35. [1.1.9] **D. Staicova**, M. Stoilov, Cosmological solutions from models with unified dark energy and dark matter and with inflaton field, Springer Proceedings in Mathematics and Statistics v.255: Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics, vol.2, ed. V. Dobrev, pp.251-260 (Springer, Tokyo, Heidelberg) 2018, **SJR 0.161**, DOI: 10.1007/978-981-13-2179-5_19 , https://link.springer.com/chapter/10.1007/978-981-13-2179-5_19 (подкрепа от настоящия договор 33%)
36. [1.1.11] **D. Staicova**, The multi-measure cosmological model and its peculiar effective potential, AIP Conference Proceedings 2075, 100003 (2019), **SJR 0.18**, <https://aip.scitation.org/doi/10.1063/1.5091247> (подкрепа от настоящия договор 33%)
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38. [2.1.1] H. Dimov, **S. Mladenov, R. Rashkov** and T. Vetsov, Higher-Derivative Oscillators in $AdS_5 \times S^5$ T-Dual Penrose Limits ,”Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics Volume 1, Springer Proceedings in Mathematics & Statistics 263, V. Dobrev (ed.), Springer (2018), **SJR 0.161**, https://doi.org/10.1007/978-981-13-2715-5_22.
39. [2.1.2] H. Dimov, **S. Mladenov, R. Rashkov** and T. Vetsov, Information Geometry of Strings on Plane Wave Background, ”Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics Volume 2, Springer Proceedings in Mathematics & Statistics 255, V. Dobrev (ed.), Springer (2018), **SJR 0.161**, https://doi.org/10.1007/978-981-13-2179-5_15 , (33% DN-18/1)
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42. [3.1.10] **N.I. Stoilova** and J. Van der Jeugt, Clebsch-Gordan Coefficients for Covariant Representations of the Lie Superalgebra $gl(n|n)$ in Odd Gelfand-Zetlin Basis, AIP Conference Proceedings 2075, (2019) 090022, **SJR 0.18** <https://aip.scitation.org/doi/pdf/10.1063/1.5091236> (подкрепа от настоящия договор 80%)
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45. [3.2.12] **N.I. Stoilova** and J. Van der Jeugt, A Class of Representations of the Orthosymplectic Lie Superalgebras $B(n,n)$ and $B(\infty,\infty)$. Springer Proceedings in Mathematics and Statistics, vol 335, pp. 185-201 (2020). Springer, Singapore, **SJR: 0.217**. https://link.springer.com/chapter/10.1007/978-981-15-7775-8_12
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46. [1.1.2] E.I. Guendelman, **E. Nissimov and S. Pacheva**, Quintessence, Unified Dark Energy and Dark Matter, and Confinement/Deconfinement Mechanism, "Ninth Mathematical Physics Meeting", pp.237-252, B. Dragovic et.al. eds., ISBN: 978-86-82441-48-9, (Belgrade Inst. Phys. Press, 2018), <http://www.mphys9.ipb.ac.rs/proceedings9.html> , <http://www.mphys9.ipb.ac.rs/proceedings9/Nissimov.pdf> (подкрепа от настоящия договор 70%)
47. [1.1.3] E.I. Guendelman, **E. Nissimov and S. Pacheva**, Confinement/Deconfinement and Gravity-Assisted Emergent Higgs Mechanism in Quintessential Cosmological Model, "Jacob Bekenstein Memorial Volume" (World Scientific, 2019), <http://arxiv.org/abs/1804.07925>, <https://doi.org/10.1142/11373> (book) https://www.worldscientific.com/doi/10.1142/9789811203961_0020 (подкрепа от настоящия договор 70%)
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49. [1.1.12] **K. Marinov**, Extended Theories of Gravity and Their Applications for Neutron Stars, Ph.D. thesis (2019) <https://astro.bas.bg/AIJ/issues/n33/KMarinov.pdf> - резюме
50. [1.2.2] D. Benisty, E.I. Guendelman, **E. Nissimov** and **S. Pacheva**, Non-Riemannian Volume Elements Dynamically Generate Inflation, Proceedings of "Tenth Mathematical Physics Meeting", Belgrade 2019, eds. B. Dragovich, I. Salom and M. Vojinovich, ISBN 978-86-82441-51-9, Belgrade Inst. Physics Publ., 2020, <http://www.mphys10.ipb.ac.rs/proceedings.html>, <http://www.mphys10.ipb.ac.rs/proceedings10/Benisty-Guendelman-Nissimov-Pacheva.pdf> (подкрепа от настоящия договор 70%)
51. [1.2.10] **Denitsa Staicova**, Special cases of the Multi-Measure Model -- understanding the prolonged inflation, [arXiv:2011.02967](https://arxiv.org/abs/2011.02967), to be published (процент финансиране от договора 33%)
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54. [3.2.5] **V.K. Dobrev**, Invariant Differential Operators for the Real Exceptional Lie Algebra F_4' , Invited talk at Workshop on Quantum Geometry, Field Theory and Gravity, Corfu, 18-25.9.2019; Proceedings, Volume 376, PoS (CORFU2019) (Published on: August 18, 2020) 233 in: Proceedings of Corfu Summer Institute, <https://pos.sissa.it/376/233/> DOI: <https://doi.org/10.22323/1.376.0233> (подкрепа от настоящия договор 90%)
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56. [3.2.8] **V.K. Dobrev**, Heisenberg parabolic subgroup of $SO^*(8)$ and invariant differential operators, Talk on-line at Corfu Summer Institute, Workshop on Quantum Geometry, Field Theory and Gravity, 20-27.9.2021. Submitted on 30 March 2022, PoS(CORFU2021)303 (подкрепа от настоящия договор 90%)