

## SPISAK RADOVA IGORA SALOMA

Radovi objavljeni nakon izbora u prethodno zvanje

Kategorija M21:

1. N. Cirilo António, N. Manojlović, I. Salom, "Algebraic Bethe ansatz for the XXX chain with triangular boundaries and Gaudin model", Nucl. Phys. B, 889 (2014) 87–108, doi:10.1016/j.nuclphysb.2014.10.014 (bodovi 8, impakt faktor 4.327, 3 citata)
2. N. Cirilo António, N. Manojlović, E. Ragoucy, I. Salom, "Algebraic Bethe ansatz for the  $sl(2)$  Gaudin model with boundary", Nucl. Phys. B, 893 (2015) 305-331, <http://dx.doi.org/10.1016/j.nuclphysb.2015.02.011> (normirani bodovi 6.67, impakt faktor 3.946, citata 1)

Kategorija M22:

3. Igor Salom and Veljko Dmitrašinović, "O(6) algebraic approach to three bound identical particles in the hyperspherical adiabatic representation", Physics Letters A, Volume 380, Issues 22–23, 20 May 2016, Pages 1904–1911, doi:10.1016/j.physleta.2016.04.008 (bodovi 5, impakt faktor 1.683)
4. Veljko Dmitrasinovic and Igor Salom, "SO(4) algebraic approach to the three-body bound state problem in two dimensions", J. Math. Phys. 55, 082105 (2014), DOI: 10.1063/1.4891399 (bodovi 5, impakt faktor 1.243, citata 1)
5. Igor Salom and Djordje Šijački, "SL(n, R) in particle physics and gravity — decontraction formula and unitary irreducible representations", Reviews in Mathematical Physics, 25 (2013), 1343006. DOI: 10.1142/S0129055X1343006X (bodovi 5, impakt faktor 1.448)

Kategorija M23:

6. Igor Salom and Djordje Šijački, "Validity of the Gell-Mann formula for  $sl(n, R)$  and  $su(n)$  Algebras", International Journal of Geometric Methods in Modern Physics, 10 (2013), 1350017. DOI: 10.1142/S0219887813500175 (bodovi 3, impakt faktor 0.951, citata 1)

Kategorija M31:

7. Igor Salom, "Representations of Parabose Supersymmetry", Proceedings of the Vth Petrov International Symposium "High Energy Physics, Cosmology and Gravity", 29 April - 05 May, 2012, BITP, Kyiv, Ukraine, TIMPANI publishers, ISBN 978-966-8904-58-5 (2012) 239-256.
8. Igor Salom and Djordje Šijački, "Decontraction formula for  $sl(n,R)$  algebras and applications in theory of gravity", Proceedings of the Vth Petrov International Symposium "High Energy Physics,

Cosmology and Gravity", 5 - 8 September, 2013, BITP, Kyiv, Ukraine, in Algebras Groups and Geometries, Hadronic Press, Palm Harbor, USA, vol.30 (2), [ ISSN 0741-9937 ], 163-241, (2013). <http://www.hadronicpress.com/AGGVOL/ISSIndex.php?VOL=30&Issue=2>

9. Igor Salom, "Representations and Particles of Orthosymplectic Supersymmetry Generalization", Proceedings of the Workshop SQS'2013, July 29 - August 3, 2013, Dubna, Russia, Physics of Particles and Nuclei Letters, 2014, Vol. 11, No. 7, 968–970. DOI: 10.1134/S1547477114070401

Kategorija M32:

10. Igor Salom, „Permutation-symmetric three-particle hyper-spherical harmonics“, Abstracts of the workshop „Search for Classical Analysis and Quantum Integrable Systems“, 15-17 November 2014, Kyoto University, Japan, <http://kojima.yz.yamagata-u.ac.jp/Abstract.pdf>

Kategorija M33:

11. Igor Salom and V. Dmitrašinović, “Permutation-Symmetric Three-Body  $O(6)$  Hyperspherical Harmonics in Three Spatial Dimensions”, in Proceedings of the XI International Workshop "Lie Theory and Its Applications in Physics", (Varna, Bulgaria, June 2015), "Springer Proceedings in Mathematics and Statistics" Vol. 191, ed. V. Dobrev (Springer, Tokyo-Heidelberg, 2016) pp. 431-439, ISBN 978-981-10-2636-2, doi:10.1007/978-981-10-2636-2\_31.
12. Igor Salom and V. Dmitrašinović, "Three-particle hyper-spherical harmonics and quark bound states", Proceedings of the XXIII International Conference on Integrable Systems and Quantum Symmetries (ISQS-23), Prague 2015, J. Phys.: Conf. Ser. 670 012044 (2016), doi:10.1088/1742-6596/670/1/012044
13. V. Dobrev and I. Salom, "Positive Energy Unitary Irreducible Representations of the Superalgebras  $osp(1|2n, \mathbb{R})$  and Character Formulae", Proceedings of the 8th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, August 24 – 31, 2014, Belgrade, SFIN XXVIII Series A: Conferences No. A1, ISBN: 978-86-82441-43-4, (2015) 59 – 82.
14. N. Manojlović, Z. Nagy and I. Salom, "Derivation of the trigonometric Gaudin Hamiltonians", Proceedings of the 8th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, August 24 – 31, 2014, Belgrade, SFIN XXVIII Series A: Conferences No. A1, ISBN: 978-86-82441-43-4, (2015) 127 – 136.
15. N. Manojlović and I. Salom, " Creation operators of the non-periodic  $sl(2)$  Gaudin model ", Proceedings of the 8th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, August 24 – 31, 2014, Belgrade, SFIN XXVIII Series A: Conferences No. A1, ISBN: 978-86-82441-43-4, (2015) 149 – 156.
16. Igor Salom, “On the Structure of Green’s Ansatz”, in Lie theory and its applications in physics, Springer Proceedings in Mathematics & Statistics, 111 (2015) 505-513, Varna, Bulgaria, June 2013, ISBN 978-4-431-55284-0.

17. Igor Salom, "Green-Clifford ansatz realization of Parabose representations", Proceedings of the 7th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, September 9 - 19, 2012, Belgrade, SFIN XXVI Series A: Conferences No. A1, ISBN: 978-86-82441-38-0, (2013) 321 – 320.
18. Igor Salom and Djordje Šijački, "Generalization of the Gell–Mann Decontraction Formula for  $sl(n,R)$  and Its Applications in Affine Gravity", in Lie theory and its applications in physics, Springer Proceedings in Mathematics & Statistics, 36 (2013) 337-347, DOI: 10.1007/978-4-431-54270-4\_23.
19. V. Dmitrasinovic and I. Salom "Differentiating Between  $\Delta$ - and Y-string Confinement: Can One See the Difference in Baryon Spectra?", Acta Physica Polonica B Proceedings Supplement, Proceedings of the Workshop "Excited QCD 2013", Bjelasnica Mountain, Sarajevo, Bosnia–Herzegovina, February 3–9, 2013, vol. 6, no. 3, 905-910.
20. V. Dmitrasinovic and I. Salom "Low-lying states of the Y-string in two dimensions", in Proceedings of the Mini-Workshop "Hadronic Resonances", Bled, Slovenia, July 1 – 8, 2012, Bled Workshops In Physics, ISSN 1580-4992, vol. 13, no. 1, 13-17.

Kategorija M36 (uređivanje zbornika saopštenja međunarodnog skupa):

21. Editors B. Dragovich, I. Salom, Proceedings of the 8th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, August 24 – 31, 2014, Belgrade, SFIN XXVIII Series A: Conferences No. A1, ISBN: 978-86-82441-43-4, (2015) 59 – 82.

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	M10+M20+M31+M32+ M33+M41+M42	10	54,67
M11+M12+M21+ M22+ M23+M24	6	32,67	

Radovi publikovani pre izbora u zvanje naučni saradnik:

- 1) Igor Salom and Djordje Šijački, "Generalization of the Gell-Mann decontraction formula for  $sl(n,R)$  and  $su(n)$  algebras", International Journal of Geometric Methods in Modern Physics, 8 (2011), 395-410.
- 2) Igor Salom and Djordje Šijački, "Generalization of the Gell-Mann formula for  $sl(5,R)$  and  $su(5)$  algebras", International Journal of Geometric Methods in Modern Physics, 7 (2010) 455-470.
- 3) Igor Salom, "Single particle representation of parabose extension of conformal supersymmetry", Fortschritte der Physik, 56 (2008) 505-509.
- 4) Igor Salom and Djordje Šijački, "Generalized Gell-Mann formula for  $sl(n, R)$  and application examples", Proceedings of the 6th Mathematical Physics meeting: Summer School and

- Conference on Modern Mathematical Physics, September 14 - 23, 2010, Belgrade, SFIN XXIV Series A: Conferences No. A1, ISBN: 978-1-63266-712-0, (2011) 267 – 276.
- 5) Igor Salom and Djordje Šijački, “Conditions for Validity of the Gell-Mann Formula in the Case of  $sl(n, \mathbb{R})$  and/or  $su(n)$  Algebras”, in Lie theory and its applications in physics, American Institute of Physics Conference Proceedings, 1243 (2010) 191-198.
  - 6) Igor Salom and Djordje Šijački, “Generalization of Gell-Mann formula for  $sl(3, \mathbb{R})$  and  $sl(4, \mathbb{R})$  algebra”, Proceedings of the 5th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, 6 - 17 July 2008, Belgrade, SFIN XXII Series A: Conferences No. A1 (2009) 369 – 377.
  - 7) Igor Salom and Djordje Šijački, “ $SL(5, \mathbb{R})$  Fields in gravity and brane physics”, Proceedings of the 5th Mathematical Physics meeting: Summer School and Conference on Modern Mathematical Physics, 6 - 17 July 2008, Belgrade, SFIN XXII Series A: Conferences No. A1 (2009) 369 – 377.
  - 8) Igor Salom, “Parabose Algebra as an Extension of Conformal Supersymmetry and Multiparticle States”, Proceedings of the VII international workshop on Lie theory and its applications in physics LT-7, Varna, Bulgaria, 18-24 June 2007 (Heron press, Sofia 2008), 169-172.
  - 9) Igor Salom, “Extension of conformal (super)symmetry using Heisenberg and parabose operators”, Proceedings of the 4th Summer School in Modern Mathematical Physics, September 3-14, 2006, Belgrade, Serbia, SFIN No. A1 (2007), 347-354.
  - 10) Igor Salom, “Parabose algebra as a candidate for the space-time super-symmetry”, in Progress in Relativity, Gravitation, Cosmology, Editors: V.V. Dvoeglazov, A. Molgado (Universidad de Zacatecas, Mexico, and others), 73-86, Nova Science Publishers, 2012, ISBN: 978-1-61324-811-9.