

Dražen Adamović

Curriculum Vitae

Address

Department of Mathematics, Faculty of Science, University of Zagreb,
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Education

1996 **Ph.D. in Mathematics**, University of Zagreb.

1995 **M.Sc. in Mathematics**, University of Zagreb.

1992 **B.Sc. in Mathematics**, University of Zagreb.

Working experience

2007–Present **Professor**, *Department of Mathematics*, Faculty of Science, University of Zagreb.

2002–2007 **Associate Professor**, *Department of Mathematics*, Faculty of Science, University of Zagreb.

1998–2002 **Assistant Professor**, *Department of Mathematics*, Faculty of Science, University of Zagreb.

1992–1998 **Teaching Assistant**, *Department of Mathematics*, Faculty of Science, University of Zagreb.

Awards

2020 Member of the list of most cited scientists for 2020, 2021, 2022 , 2023, 2024 for general mathematics

2012 Award of the Croatian Academy of Sciences and Arts for natural sciences

2009 National Science Award for natural sciences

Member of editorial boards of the following journals

since 2014 European Journal of Mathematics, Springer

2012-2017 Glasnik Matematički (managing editor)

2017-2027 Glasnik Matematički (Editor-in-Chief)

since 2008 Mathematical Communications

2004-2014 Central European Journal of Mathematics

PhD students

- 2022 Ivana Vukorepa (*jointly with O. Perše*)
Affine vertex algebras of type A beyond admissible levels
- 2021 Veronika Pedić Tomić
Whittaker modules and fusion rules for the Weyl vertex algebra, affine vertex algebras and their orbifolds
- 2021 Ante Čeperić
Representations of logarithmic vertex algebras and structure of their higher Zhu's algebras
- 2019 Berislav Jandrić
Vertex algebras associated to representations of $N = 1$ super Heisenberg-Virasoro and Schrödinger-Virasoro algebra
- 2019 Ana Kontrec
Representations of certain irrational W-algebras
- 2015 Marijan Polić (*jointly with O. Perše*)
Representations of certain subalgebras of the vertex algebra $W_{1+\infty}$
- 2012 Gordan Radobolja
Application of vertex algebras to the structure theory of certain representations of Infinite-dimensional Lie algebras of Virasoro type
- 2008 Ivana Baranović (*jointly with M. Primc*)
Feigin-Stoyanovsky's type subspace of standard modules for affine Lie algebras of type $D_l^{(1)}$ it's combinatorial bases and the intertwining operators
- 2005 Ozren Perše (*jointly with M. Primc*)
Vertex Operator Algebras Associated to Affine Lie Algebras of Type $A_l^{(1)}$ and $B_l^{(1)}$ on Admissible Half-Integer Levels

Research projects

- 2023–2027 leader of project "Affine vertex algebras and W-algebras" by Croatian Science Foundation
- since 2015 Member of Scientific Centre of Excellence (ZCI) QUANTIXLIE
- 2014–2018 leader of project "Algebraic and combinatorial methods in vertex algebra theory" by Croatian Science Foundation
- 2013–2014 leader of the grant "Vertex algebras, Lie algebras and their modules", University of Zagreb
- 2009–2011 leader of the Croatian-Hungarian bilateral project „Algebraic methods in mathematical physics“
- 1998–2002 leader of the project „Vertex algebras“ for young scientists, MZOS

Activities

- 2021–2025 Member of Scientific field committee for mathematics
- 2017–2021 Member of Scientific field committee for mathematics
- 2009–2013 Member of Scientific field committee for mathematics
- 2003–2006 Chairman of the Scientific Section and Colloquium of Croatian Mathematical Society
- since 2002 Leader of the postgraduate Algebra seminar

Teaching

- Current Vector spaces, Mathematical methods of physics 1,2
- Recent Elementary mathematics 1,2, Complex analysis; Algebra 1, Algebra 2; Multilinear algebra(undergraduate); Affine vertex algebras; Lie algebras and their modules; Algebra; Vertex algebras (graduate courses)

Languages

English

Invited talks at international conferences and foreign institutions (since 2010)

1. Vertex algebras and integrable systems, Cardiff, July 7-11, 2025
2. Joint Meeting in Mathematics The University of Hong Kong -Shenzhen International Center for Mathematics Spring 2025, Hong Kong, April 29-30, 2025
3. Vertex algebras in Shenzhen, SUSTech International Center for Mathematics, Shenzhen, April 20-26, 2025
4. Symplectic Singularities, Supersymmetric QFT, and Geometric Representation Theory, Simons Center for Geometry and Physics, Stony Brook, March 31-April 4, 2025
5. Conference in Vertex algebras and related topics, Taipei, December 16-20, 2024
6. Vertex algebras and related topics, RIMS Kyoto University, September 9-13, 2024
7. Vertex Algebra, Tensor Category and Related Topics Shanghai Jiao Tung University, China, June 21-25, 2024
8. Workshop on vertex algebras and related topics, Ningbo, April 22-26, 2024.
9. Workshop vertex operator algebras and mathematical physics, Xiamen March, 15-18, 2024.
10. Xiemen University, mini course, March, 2024.
11. Representation Theory seminar, University of Melbourne, August 3, 2023
12. Interactions between Mathematics and Physics, Conference in honor of 80 birthday of Victor G. Kac, Rome, May 29 - June 1, 2023.
13. Research Seminar Algebra and Mathematical Physics, University of Hamburg, May 9, 2023.
14. Conference in finite groups and vertex algebras, Taipei, December 19-23, 2022
15. Seminar for Algebra and Analysis Alpe-Jadran, Ljubljana, 26.11.2022.
16. Special week on Infinite dimensional Lie algebras and related structures , Rome, September 4-9, 2022
17. Workshop on Representation Theory and Applications ICTP-SAIFR, Sao Paulo, April 25- 29, 2022
18. International Workshop on Representation theory, Vertex and Chiral Algebras IMPA, Rio de Janeiro, March 21-25, 2022

19. Workshop vertex operator algebras and tensor categories, Shanghai, November 27-28, 2021.
20. Quantum Field Theories and Quantum Topology Beyond Semisimplicity Banff, October 31-November 5, 2021
21. Pure Spinors, Superalgebras, and Holomorphic Twists, Workshop in Mathematical Physics at Heidelberg University Heilderberg, October 4–8, 2021
22. Mini workshop "Vertex Algebras, W-Algebras and related structures" Sapienza Universita di Roma, Rome, September 23-24, 2021
23. 13th Seminar on Conformal Field Theory, January 17, 2020 in Darmstadt
24. Beyond Rationality ∞ : exploring the many roads to postrational conformal field theory, at the Woudschoten Hotel and Conferentiecentrum (Zeist, The Netherlands), December 12-13, 2019
25. Affine Vertex Algebras, collapsing levels and representation theory, Modern perspectives of VOAs II, Edmonton, Canada, November 12 and 14 in 2019,
26. Workshop on vertex operator algebras and related topics, Chengdu, China, August 19-23, 2019
27. The Mathematical Foundations of Conformal Field Theory and Related Topics, Tianjin, China, June 10-14, 2019
28. Geometrical and automorphic aspects of W-algebras, Lille, France, May, 27-31, 2019
29. Vertex Algebras in Mathematics and Physics, University at Albany, April 13 - 14, 2019
30. Central China Normal University, Wuhan, China, Seminar, January 10, 2019.
31. Xiamen University, China, Seminars, January 7, 2019
32. Seminar Geometry and Algebra Utrecht Geometry Centre, Utrecht, September 18th 2018
33. Mini-workshop on algebraic structures in CFT Utrecht University, Utrecht, September 19th 2018
34. RIMS Gasshuku-style Seminar "Vertex Operator Algebras and Conformal Field Theory" RIMS, Kyoto University, Japan, July 2 - 6, 2018
35. Vertex operator algebras, number theory, and related topics , Sacramento, California, June 11-15, 2018
36. Affine, vertex and W-algebras, Rome, December 11-15, 2017.
37. Vertex operator algebras, number theory, and related topics , Sacramento, California, June 11-15, 2018
38. Shanghai Jiao Tong University, Shanghai, China, Colloquium talk, November 2, 2017
39. Xiamen University, China, Two seminars, October 30 and November 1, 2017
40. VOA and related topics, Osaka University, March 15-16, 2017, invited talk
41. Geometry and Representation Theory, Erwin Schrödinger International Institute for Mathematical Physics, Vienna, January 16-27, 2017, invited talk
42. AMS Special Session on Representations of Lie Algebras, Quantum Groups and Related Topics, NCSU, Raleigh, November 12-13, 2016, invited talk
43. North Carolina State University, Raleigh, USA, Algebra and Combinatorics Seminar, November 7, 2016
44. 6th Croatian Mathematical Congress, June 14-17. 2016. Zagreb, Croatia (plenary talk)
45. South China University of Technology, Guangzhou, China, 10-17.4.2016. (series of seminars)
46. Vertex algebras and Quantum groups, BIRS, Banff. Canada, 7.2. -12.2.2016. (invited talk)
47. Sapienza Universita di Roma, Italy, Algebra and Geometry Seminar, 2.12.2015. (seminar)
48. Vertex operator algebras and Related topics, Sichuan University, Chengdu, China, September 7-11, 2015 (invited talk)
49. Lie Algebras, Vertex Operator Algebras, and Related Topics, University of Notre Dame, USA, August 14-18, 2015 (invited talk)
50. Workshop on Vertex Operator Algebras and Mock Modular Forms, May 22-23, 2015, NUI Galway,

Ireland (invited talk)

51. Vertex algebras, W-algebras, and applications, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy, December 9th 2014 to January 18th 2015 (invited talk)
52. International conference on "Infinite Dimensional Lie Theory and its Applications", Harish-Chandra Research Institute, Allahabad, India, December 15-20, 2014 (invited talk)
53. North Carolina State University, Raleigh, USA, Algebra and Combinatorics Seminar, 6.10.2014.(invited talk)
54. Modern trends in topological quantum field theory, Workshop II, March 17-21, 2014, Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria (invited talk)
55. Beyond the Moonshine, Sendai, Japan, July 8-12, 2013, (invited talk)
56. Rutgers university, USA, Seminar talk, October, 2012
57. AMS Special Session on Geometric and Algebraic Aspects of Representation Theory, 2012 New Orleans, USA, October 13-14, 2012, Invited talk
58. International Conference on Group Theory & Lie Theory, Harish-Chandra Research Institute, Allahabad, India, March, 2012, Invited talk
59. AMS Special Session on Kac-Moody Lie Algebras, Vertex Algebras, and Related Topics, Cornell University, Ithaca, USA , September 10-11, 2011, invited speaker
60. Conformal field theories and tensor categories, Beijing International Center for Mathematical Research, Peking University, Beijing, China, June 13-17, 2011, invited talk
61. Algebraic and Combinatorial Approaches to Representation Theory, The Indian Institute of Sciences, Bangalore, India, August 12-16, 2010, invited talk
62. University at Albany, May, 2010, Colloquium talk

Invited seminars and mini-courses (online)

1. Shanghai Jiao Tong University, Shanghai, mini course, April 2023.
2. ISU algebra online seminar, University of Illinois, USA, November 18, 2021.
3. STARS: Superalgebra Theory and Representations Seminar Ben-Gurion University of the Negev / Weizmann Institute of Science, September 29, 2021.
4. Afternoon representation theory III, Metz, June 15, 2021
5. Mini-conference Vertex operator algebras and related topics, April 9-10, 2021
6. Colloquium of Croatian Mathematical Society, January 27, 2021.
7. Xiamen University, mini-course, November and December, 2020.
8. Rocky Mountain Rep Theory Seminar, 17.12. 2020.
9. Shanghai Jiao Tong University, Shanghai, 12.12. 2020.
10. ETH Zurich, 26.11.2020
11. Sao Paolo, 5.8.2020.

Organization of conferences

1. Vertex algebras, geometric representation theory and quantum groups ,CIRM, France, June 10–14, 2024
2. Vertex algebras, infinite dimensional Lie algebras and related topics , INDAM, Rome, December 11 – December 15, 2023
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4. Representation Theory XVIII, Dubrovnik, 2025
5. Representation Theory XVIII, Dubrovnik, 2023
6. Representation Theory XVII, Dubrovnik, 2022

7. Vertex Algebras and Representation Theory CIRM, France, June 6-10, 2022
8. Representation Theory XVI, Dubrovnik, 2019
9. Vertex algebras and infinite dimensional Lie algebras, University of Split, Split, Croatia, November 22-25, 2018
10. Vertex algebras and related topics , University of Zagreb, Zagreb, Croatia, May 24-27, 2018.
11. Affine, vertex and W-algebras, Rome, December 11-15, 2017
12. Representation Theory XV, Dubrovnik, 2017
13. Representation Theory XIV, Dubrovnik, 2015;
14. Representation Theory XIII, Dubrovnik, 2013
15. Organizer of the workshop "Algebraic methods in Mathematical Physics", Zagreb, 2011
16. Representation Theory XII, Dubrovnik, 2011;
17. Representation Theory XI, Dubrovnik, 2009
18. Functional analysis X- Representation Theory", Dubrovnik, 2008

Visits to foreign research institutions

Xiamen University (March 2024)
 University of Melbourne (July-August 2023)
 Sapienza University, Rome (September 2021)
 University of Alberta, Edmonton (November 2019)
 Xiamen University (January 2019)
 RIMS Kyoto (July 2018)
 Xiamen University (October 28-November 6, 2017)
 Osaka University (March 2017)
 North Carolina State University, Raleigh, USA, (November 2016)
 South China University of Technology, Guangzhou, China (April, 2016)
 Wilfrid – Laurier University, Waterloo, Canada (April, 2014)
 North Carolina State University, Raleigh, USA, (October 2014)
 Tata Institute for Fundamental Research, Mumbai, India (February, 2003);
 Erwin Schrodinger Institute for Mathematical Physics, Vienna, Austria (December 2004; September, 2008, February, 2009; March 2014, January 2017);
 Lund University (March, 2009),
 SUNY-University at Albany (May, 2010);
 Rutgers University, USA (October, 2012),
 Eotvos Lorand University, Budapest, Hungary (several times in 2003; 2009-2011);
 Harish-Chandra Research Institute Allahabad, India (March, 2012)

Citations

MathSciNet, 1285 citations, h-index 20.
ISI Web of Knowledge, 1287 citations, h-index 20.
Google Scholar(all), 2261 citations, h-index 26.
Google Scholar(since 2020), 1242 citations, h-index 20.
Scopus, 1188 citations, h-index 20.

Books

1. D. Adamović, P. Papi, Affine, vertex and W-algebras. Springer INdAM Series 37. Cham: Springer (ISBN 978-3-030-32905-1/hbk; 978-3-030-32906-8/ebook). ix, 218 p. (2019).
2. D. Adamović, A. Dujella, A. Milas, P. Pandžić, Lie Groups, Number Theory, and Vertex Algebras, Contemporary Mathematics 768, American Mathematical Society, (2021), Proceedings of the Dubrovnik Conference "Representation Theory XVI", June 2019.

Papers

1. D. Adamović, S. Nakatsuka, Center of affine $sl_{2|1}$ at the critical level International Mathematics Research Notices, Volume 2025, Issue 14, July 2025, rnaf212, arXiv:2412.04895 [math.QA]
2. D. Adamović, C. Ai, X. Lin, J. Yang, Semisimplicity of module categories of certain affine vertex operator superalgebras, Journal of Algebra 682 (2025) 331-359 arXiv:2409.11797 [math.QA]
3. D. Adamović, A. Babichenko, Nappi-Witten vertex operator algebra via inverse Quantum Hamiltonian Reduction, Communications in Contemporary Mathematics (2025) 2550045 (28 pages) arXiv:2409.02093 [math.QA]
4. D. Adamović, A. Kontrec, On Kazama-Suzuki duality between $W_k(sl_4, f_{sub})$ and $N = 2$ superconformal vertex algebra, SIGMA 21 (2025), 036, 23 pages arXiv:2411.08406 [math.QA]
5. D. Adamović, O. Perše, I. Vukorepa, A method for describing the maximal ideal in universal affine vertex algebras at non-admissible levels, to appear in Journal of Algebra and its Applications arXiv:2402.14722 [math.QA]
6. D. Adamović, C. H. Lam, V. Pedić Tomić, N. Yu, On irreducibility of modules of Whittaker type: twisted modules and nonabelian orbifolds, Journal of Pure and Applied Algebra 229 (2025) 107840
7. D. Adamović, V. Kac, P. Möseneder Frajria, P. Papi, Defining relations for minimal unitary quantum affine W-algebras, Communications in Mathematical Physics 405, 33 (2024), arXiv:2302.05269 [math.RT]
8. D. Adamović, K. Kawasetsu, D. Ridout, Weight module classifications for Bershadsky-Polyakov algebras, Communications in Contemporary Mathematics (2024), arXiv:2303.03713 [math.QA]
9. D. Adamović, T. Creutzig, O. Perše, I. Vukorepa, Tensor category $KL_k(sl(2n))$ via minimal affine W-algebras at the non-admissible level $k = -(2n + 1)/2$, Journal of Pure and Applied Algebra (2023), arXiv:2212.00704 [math.QA]
10. D. Adamović, P. Möseneder Frajria, P. Papi, New approaches for studying conformal embeddings and collapsing levels for W-algebras, International Mathematics Research Notices, 2023; rnad138; arXiv:2203.08497 [math.RT]
11. D. Adamović, T. Creutzig, N. Genra, Relaxed and logarithmic modules of $\widehat{sl(3)}$, Mathematische Annalen (2023), arXiv:2110.15203
12. D. Adamović, Q. Wang, A duality between vertex superalgebras $L_{-3/2}(osp(1|2))$ and $\mathcal{V}^{(2)}$ and generalizations to logarithmic vertex algebras, Journal of Algebra 631(2023) 72–105, arXiv:2109.06475
13. D. Adamović, A. Milas, Logarithmic vertex algebras associated to $sp(4)$, to appear in RAD HAZU (2024)
14. D. Adamović, V. Pedić Tomić, Whittaker modules for $\widehat{gl}$ and $\mathcal{W}_{1+\infty}$ -modules which are not tensor products, Letters in Mathematical Physics 113, 39 (2023), arXiv:2112.08725
15. D. Adamović, P. Möseneder Frajria, P. Papi, On the semisimplicity of the category KL_k for affine Lie superalgebras, Advances in Mathematics 405 (2022) 108493, arXiv:2107.12105 [math.RT]
16. D. Adamović, O. Perše, I. Vukorepa, On the representation theory of the vertex algebra $L_{-5/2}(sl(4))$, Communications in Contemporary Mathematics (2021), arXiv:2103.02985 [math.QA].

17. D. Adamović, A. Kontrec, Bershadsky-Polyakov vertex algebras at positive integer levels and duality, *Transformation Groups* (2022), arXiv:2011.10021 [math.QA]
18. D. Adamović, B. Jandrić, G. Radobolja, The $N=1$ super Heisenberg-Virasoro vertex algebra at level zero, *Journal of Algebra and Its Applications* Vol. 21, No. 12, 2350003 (2022), arXiv:2011.11989 [math.QA].
19. D. Adamović, K. Kawasetsu, D. Ridout, A realisation of the Bershadsky-Polyakov algebras and their relaxed modules, *Letters in Mathematical Physics* 111, 38 (2021), arXiv:2007.00396 [math.QA].
20. D. Adamović, T. Creutzig, N. Genra and J. Yang, The vertex algebras $\mathcal{R}^{(p)}$ and $\mathcal{V}^{(p)}$, *Communications in Mathematical Physics* 383, 1207–1241 (2021), arXiv:2001.08048 [math.RT]
21. D. Adamović, A. Milas, Q. Wang, On parafermion vertex algebras of $sl(2)_{-3/2}$ and $sl(3)_{-3/2}$, to appear in *Communications in Contemporary Mathematics*, arXiv:2005.02631[math.QA].
22. D. Adamović, A. Milas, M. Penn, On certain W -algebras of type $\mathcal{W}_k(sl_4, f)$, *Contemporary Mathematics* Volume 768, 2021, pp 151–165, <https://doi.org/10.1090/conm/768/15461>
23. D. Adamović, B. Jandrić, G. Radobolja, On the $N = 1$ super Heisenberg-Virasoro vertex algebra, *Contemporary Mathematics* Volume 768, 2021, pp 167–178, <https://doi.org/10.1090/conm/768/15462>
24. D. Adamović, A. Čeperić, On Zhu's algebra and C_2 -algebra for symplectic fermion vertex algebra $SF(d)^+$, *Journal of Algebra*, Volume 563, 1 December 2020, Pages 376-403, arXiv:2005.13842 [math.QA].
25. D. Adamović, A. Milas, On some vertex algebras related to $V_{-1}(sl(n))$ and their characters, *Transformation Groups*, Vol. 26, No. 1, 2021, pp. 1-30, arXiv:1805.09771 [math.RT]
26. D. Adamović, A. Kontrec, Classification of irreducible modules for Bershadsky-Polyakov algebra at certain levels, *Journal of Algebra and Its applications* 20 (2021), no. 6, 2150102, 39 pp., arXiv:1910.13781 [math.QA]
27. D. Adamović, P. Möseneder Frajria, P. Papi, O. Perše Conformal embeddings in affine vertex superalgebra, *Advances in Mathematics*, 360 (2020) 106918, arXiv:1903.03794 [math.RT]
28. D. Adamović, C. H. Lam, V. Pedić, N. Yu, On irreducibility of modules of Whittaker type for cyclic orbifold vertex algebra, *Journal of Algebra* 539 (2019) 1–23, arXiv:1811.04649
29. D. Adamović, V. G. Kac, P. Möseneder Frajria, P. Papi, O. Perše, Kostant's pair of Lie type and conformal embeddings, to appear in *Springer INdAM Series*, arXiv:1802.02929
30. D. Adamović, V. Pedić, On fusion rules and intertwining operators for the Weyl vertex algebra, *Journal of Mathematical Physics* 60, 081701 (2019), 18 pp.
31. D. Adamović, Realizations of simple affine vertex algebras and their modules: the cases $\widehat{sl(2)}$ and $\widehat{osp(1,2)}$, *Communications in Mathematical Physics*, March 2019, Volume 366, Issue 3, pp 1025–1067.
32. D. Adamović, G. Radobolja, Self-dual and logarithmic representations of the twisted Heisenberg-Virasoro algebra at level zero, *Communications in Contemporary Mathematics* Vol. 21, No. 02, 1850008 (2019),
33. D. Adamović, V. G. Kac, P. Möseneder Frajria, P. Papi, O. Perše, An application of collapsing levels to the representation theory of affine vertex algebras, *International Mathematics Research Notices*, Volume 2020, Issue 13, July 2020, Pages 4103-4143
34. D. Adamović, V. G. Kac, P. Möseneder Frajria, P. Papi, O. Perše, On classification of non-equal rank affine conformal embeddings and applications, *Selecta Mathematica New Series*, July 2018, Volume 24, Issue 3, pp 2455-2498
35. D. Adamović, V. G. Kac, P. Möseneder Frajria, P. Papi, O. Perše, Conformal embeddings of affine vertex algebras in minimal W -algebras II: decompositions, *Japanese Journal of Mathematics*,

September 2017, Volume 12, Issue 2, pp 261-315

36. D. Adamović, A note on the affine vertex algebra associated to $gl(1|1)$ at the critical level and its generalizations, Rad HAZU, Matematičke znanosti, Vol. 21(2017), 75-87. (special issue in honor of Sibe Mardešić).
37. D. Adamović, V. G. Kac, P. Möseneder Frajria, P. Papi, O. Perše, Conformal embeddings of affine vertex algebras in minimal W-algebras I: structural results, Journal of Algebra Volume 500, 15 April 2018, Pages 117-152
38. D. Adamović, N. Jing, K.C. Misra, On principal realization of modules for the affine Lie algebra $A_1^{(1)}$ at the critical level, Transactions of the American Mathematical Society 369 (2017), 5113-5136.
39. D. Adamović, G. Radobolja, On free field realization of $W(2,2)$ -modules, SIGMA 12 (2016), 113, 13 pages.
40. D. Adamović, V. G. Kac, P. Möseneder Frajria, P. Papi, O. Perše, Finite vs infinite decompositions in conformal embeddings, Communications in Mathematical Physics 348 (2016) 445-473.
41. D. Adamović, A. Milas, Some applications and constructions of intertwining operators in LCFT, Contemporary Mathematics 695, 15-27; arXiv:1605.05561 [math.QA].
42. D. Adamović, O. Perše, On extensions of affine vertex algebras at half integer levels, Perspectives in Lie Theory pp 281-298.
43. D. Adamović, R. Lu, K. Zhao, Whittaker modules for the affine Lie algebra $A_1^{(1)}$, Advances in Mathematics 289 (2016) 438-479.
44. D. Adamović, A realization of certain modules for the $N=4$ superconformal algebra and the affine Lie algebra $A_2(1)$, Transformation Groups, Vol. 21, No. 2 (2016) 299-327.
45. D. Adamović, X. Lin, A. Milas, Vertex Algebras $W(p)^{A_m}$ and $W(p)^{D_m}$ and Constant Term Identities, SIGMA 11 (2015), 019, 16 pages.
46. D. Adamović, G. Radobolja, Free field realization of the twisted Heisenberg-Virasoro algebra at level zero and its applications, Journal of Pure and Applied Algebra 219 (10) 2015, pp. 4322-4342.
47. D. Adamović, A classification of irreducible Wakimoto modules for the affine Lie algebra $A_1^{(1)}$, Contemporary Mathematics 623 2014, pp. 1-12.
48. D. Adamović, X. Lin, A. Milas, ADE subalgebras of the triplet vertex algebra $W(p)$: D-series, Int. J. Math. 25, 1450001 (2014) [34 pages].
49. D. Adamović, A. Milas, Vertex operator superalgebras and LCFT Journal of Physics A: Mathematical and Theoretical. 46 (2013) , 49; 494005, Special Issue on Logarithmic conformal field theory .
50. D. Adamović, X. Lin, A. Milas, ADE subalgebras of the triplet vertex algebra $W(p)$: A-series, Commun. Contemp. Math. 15, 1350028 (2013) [30 pages].
51. D. Adamović, A. Milas, The doublet vertex operator superalgebras $A(p)$ and $A_{2,p}$, Contemporary Mathematics 602 (2013) 23-38
52. D. Adamović, O. Perše, Fusion rules and complete reducibility of certain modules for affine Lie algebras, Journal of algebra and its applications 13, 1350062 (2014) (18 pages)
53. D. Adamović, A. Milas, C_2 -cofinite vertex algebras and their logarithmic modules, in Conformal field theories and tensor categories, Mathematical Lectures from Peking University 2014, 249-270
54. D. Adamović, O. Perše, The Vertex Algebra $M(1)^+$ and Certain Affine Vertex Algebras of Level -1 , SIGMA 8 (2012), 040, 16 pages
55. D. Adamović, A. Milas, An explicit realization of logarithmic modules for the vertex operator algebra $W_{p,p'}$ Journal of Mathematical Physics 073511 (2012), 16 pages
56. D. Adamović, A. Milas, On W-algebra extensions of $(2,p)$ Minimal Models: $p > 3$ Journal of Algebra 344 (2011) 313-332

57. D. Adamović, O. Perše, Some general results on conformal embeddings of affine vertex operator algebras, *Algebr. Represent. Theory* 16 (2013), no. 1, 51-64
58. D. Adamović, A. Milas The structure of Zhu's algebras for certain W -algebras, *Advances in Mathematics* 227 (2011) 2425-2456
59. D. Adamović, A. Milas, On W -Algebras Associated to $(2, p)$ Minimal Models and Their Representations *International Mathematics Research Notices* 2010 (2010) 20 : 3896-3934
60. D. Adamović, O. Perše, On coset vertex algebras with central charge 1, *Mathematical Communications* 15 (2010) 143-157
61. D. Adamović, A. Milas, Lattice construction of logarithmic modules for certain vertex algebras *Selecta Mathematica, New Series* 15 (2009) 535-561
62. D. Adamović, A. Milas, An analogue of modular BPZ equation in logarithmic (super)conformal field theory, *Contemporary Mathematics* 497 (2009) 1-16
63. D. Adamović, A. Milas, The $N=1$ triplet vertex operator superalgebras : twisted sector , *SIGMA* 4 (2008), 087, 24 pages, Contribution to the Special Issue on Kac-Moody Algebras and Applications
64. D. Adamović, A. Milas, The $N=1$ triplet vertex operator superalgebras, *Communications in Mathematical Physics* 288 (2009) 225-270
65. D. Adamović, A. Milas, On the triplet vertex algebra $W(p)$, *Advances in Mathematics* 217 (2008) 2664-2699
66. D. Adamović, O. Perse, Representations of certain non-rational vertex operator algebras of affine type , *Journal of Algebra* 319 (2008) 2434-2450
67. D. Adamović, A. Milas, Logarithmic intertwining operators and $W(2, 2p - 1)$ -algebras , *Journal of Mathematical Physics* 073503 (2007) (20 pp)
68. D. Adamović, A family of regular vertex operator algebras with two generators , *Central European Journal of Mathematics* 5 (2007) 1-18
69. D. Adamović , Lie superalgebras and irreducibility of $A_1^{(1)}$ - modules at the critical level , *Communications in Mathematical Physics* 270 (2007) 141-161
70. D. Adamović, A construction of admissible $A_1^{(1)}$ -modules of level $-\frac{4}{3}$, *Journal of Pure and Applied Algebra* 196 (2005) 119-134
71. D. Adamović, An application of $U(\mathfrak{g})$ -bimodules to representation theory of affine Lie algebras, *Algebras and Representation theory* 7 (2004) 457-469
72. D. Adamović, Regularity of certain vertex operator superalgebras. *Kac-Moody Lie algebras and related topics*, 1-16, *Contemp. Math.*, 343, Amer. Math. Soc., Providence, RI, 2004
73. D. Adamović Classification of irreducible modules of certain subalgebras of free boson vertex algebra , *Journal of Algebra* 270 (2003) 115-132
74. D. Adamović, A construction of some ideals in affine vertex algebras, *International Journal of Mathematics and Mathematical Sciences*, 2003:15, (2003) 971-980
75. D. Adamović, Vertex algebra approach to fusion rules for $N=2$ superconformal minimal models , *Journal of Algebra* 239 (2001) 549-572
76. D. Adamović, Representations of the vertex algebra $W_{1+\infty}$ with a negative integer central charge, *Communications in Algebra* 29(7) (2001) 3153-3166,
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