

# Publications for Alexander Molev

## 2018

Jing, N., Kozic, S., Molev, A., Yang, F. (2018). Center of the quantum affine vertex algebra in type A. *Journal of Algebra*, 496, 138-186. <a href="http://dx.doi.org/10.1016/j.jalgebra.2017.10.020">[More Information]</a>

Jing, N., Liu, M., Molev, A. (2018). Isomorphism Between the R-Matrix and Drinfeld Presentations of Yangian in Types B, C and D. *Communications in Mathematical Physics*, 361(3), 827-872. <a href="http://dx.doi.org/10.1007/s00220-018-3185-x">[More Information]</a>

Jing, N., Liu, M., Molev, A. (2018). Isomorphism between the R-matrix and Drinfeld presentations of Yangian in types B, C and D. *Communications in Mathematical Physics*, 361, 827-872. <a href="http://dx.doi.org/10.1007/s00220-018-3185-x">[More Information]</a>

Molev, A. (2018). *Sugawara Operators for Classical Lie Algebras*. Providence: American Mathematical Society.

## 2017

Kozic, S., Molev, A. (2017). Center of the quantum affine vertex algebra associated with trigonometric R-matrix. *Journal of Physics A: Mathematical and General*, 50(32), 1-21. <a href="http://dx.doi.org/10.1088/1751-8121/aa7af6">[More Information]</a>

Molev, A., Mukhin, E. (2017). Eigenvalues of Bethe vectors in the Gaudin model. *Theoretical and Mathematical Physics*, 192(3), 1258-1281. <a href="http://dx.doi.org/10.1134/S0040577917090021">[More Information]</a>

Arakawa, T., Molev, A. (2017). Explicit generators in rectangular affine W-algebras of type A. *Letters in Mathematical Physics*, 107(1), 47-59. <a href="http://dx.doi.org/10.1007/s11005-016-0890-2">[More Information]</a>

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Frappat, L., Naihuan, J., Molev, A., Ragoucy, E. (2016). Higher Sugawara Operators for the Quantum Affine Algebras of Type A. *Communications in Mathematical Physics*, 345, 631-657. <a href="http://dx.doi.org/10.1007/s00220-015-2566-7">[More Information]</a>

Molev, A., Ragoucy, E., Rozhkovskaya, N. (2016). Segal-Sugawara vectors for the Lie algebra of type G<sub>2</sub>. *Journal of Algebra*, 455, 386-401. <a href="http://dx.doi.org/10.1016/j.jalgebra.2016.03.009">[More Information]</a>

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Molev, A., Ragoucy, E. (2015). Classical W-algebras in types A, B, C, D and G. *Communications in Mathematical Physics*, 336, 1053-1084. <a href="http://dx.doi.org/10.1007/s00220-014-2239-y">[More Information]</a>

Molev, A., Mukhin, E. (2015). Invariants of the vacuum module associated with the Lie superalgebra  $gl(1|\mathbb{F}1)$ . *Journal of Physics A: Mathematical and Theoretical*, 48(1), 1-20. <a href="http://dx.doi.org/10.1088/1751-8113/48/31/314001">[More Information]</a>

Futorny, V., Molev, A. (2015). Quantization of the shift of argument subalgebras in type A. *Advances in Mathematics*, 285, 1358-1375. <a href="http://dx.doi.org/10.1016/j.aim.2015.07.038">[More Information]</a>

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Isaev, A., Molev, A., Ogievetsky, O. (2014). Idempotents for Birman-Murakami-Wenzl algebras and reflection equation. *Advances in Theoretical and Mathematical Physics*, 18(1), 1-25. <a href="http://dx.doi.org/10.4310/ATMP.2014.v18.n1.a1">[More Information]</a>

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Molev, A., Ragoucy, E. (2014). The MacMahon Master Theorem for Right Quantum Superalgebras and Higher Sugawara Operators for  $gl(m|n)$ . *Moscow Mathematical Journal*, 14(1), 83-119.

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Iorgov, N., Molev, A., Ragoucy, E. (2013). Casimir elements from the Brauer-Schur-Weyl duality. *Journal of Algebra*, 387, 144-159. <a href="http://dx.doi.org/10.1016/j.jalgebra.2013.02.041">[More Information]</a>

Molev, A., Rozhkovskaya, N. (2013). Characteristic maps for the Brauer algebra. *Journal of Algebraic Combinatorics*, 38(1), 15-35. <a href="http://dx.doi.org/10.1007/s10801-012-0388-7">[More Information]</a>

Molev, A. (2013). Feigin-Frenkel center in types B, C and D. *Inventiones Mathematicae*, 191(1), 1-34. <a href="http://dx.doi.org/10.1007/s00222-012-0390-7">[More Information]</a>

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Davydov, A., Molev, A. (2011). A categorical approach to classical and quantum Schur-Weyl duality. *Contemporary Mathematics*, 537, 143-171. <a href="http://dx.doi.org/10.1090/conm/537/10572">[More Information]</a>

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Molev, A. (2009). Comultiplication rules for the double Schur functions and Cauchy identities. *The Journal of Combinatorics*, 16(1), R13-1-R13-44.

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