

EVGENY FEIGIN // PUBLICATION LIST

1. *Extremal part of the PBW-filtration and E-polynomials*, arXiv:1306.3146 (with I. Cherednik).
2. *Highest weight orbits: PBW and toric degenerations*, arXiv:1306.1292.
3. *Homological approach to the Hernandez-Leclerc construction and quiver varieties*, arXiv:1302.5297 (with G. Cerulli Irelli and M. Reineke).
4. *Desingularization of quiver Grassmannians for Dynkin quivers*, arXiv:1209.3960 (with G. Cerulli Irelli and M. Reineke).
5. *Degenerate flag varieties: moment graphs and Schröder numbers*, Journal of Algebraic Combinatorics, Volume 38, Issue 1 (2013), Page 159–189 (with G. Cerulli Irelli and M. Reineke).
6. *PBW-filtration over \mathbb{Z} and compatible bases for $V_{\mathbb{Z}}(\lambda)$ in type A_n and C_n* , Springer Proceedings in Mathematics & Statistics, Symmetries, Integrable Systems and Representations, 2013, pp. 35–63; arXiv:1204.1854 (with G. Fourier, P. Littelmann).
7. *Degenerate SL_n : representations and flag varieties*, to appear in Functional Analysis and Its Applications, arXiv:1202.5848.
8. *The median Genocchi numbers, Q -analogues and continued fractions*, European Journal of Combinatorics 33 (2012), pp. 1913–1918.
9. *Quiver Grassmannians and degenerate flag varieties*, Algebra & Number Theory 6-1 (2012), 165–194 (with G. Cerulli Irelli and M. Reineke).
10. *Symplectic degenerate flag varieties*, arxiv:1106.1399 (with M.Finkelberg and P.Littelmann).
11. *Degenerate flag varieties of type A: Frobenius splitting and BWB theorem*, arxiv:1103.1491 (with M.Finkelberg).
12. *Degenerate flag varieties and the median Genocchi numbers*, Mathematical Research Letters, 18 (2011), no. 6, pp. 1–16.
13. *PBW filtration and bases for symplectic Lie algebras*, International Mathematics Research Notices 2011 (24), pp. 5760–5784. (with G. Fourier, P. Littelmann).
14. \mathbb{G}_a^M *degeneration of flag varieties*, Selecta Mathematica: Volume 18, Issue 3 (2012), Page 513–537.
15. *Systems of correlation functions, coinvariants and the Verlinde algebra*, Funkts. Anal. Prilozh. 46 (2012), no. 1, pp. 49–64.
16. *Quantum continuous gl_{∞} : Tensor products of Fock modules and W_n characters*, Kyoto Journal of Mathematics, 51 (2011), no. 2. pp. 365–392 (with B. Feigin, M. Jimbo, T. Miwa, E. Mukhin).
17. *Quantum continuous gl_{∞} : Semi-infinite construction of representations*, Kyoto Journal of Mathematics, 51 (2011), no. 2, pp. 337–364, arXiv:1002.3100 (with B. Feigin, M. Jimbo, T. Miwa, E. Mukhin).

18. *PBW filtration and bases for irreducible modules in type A_n* , Transformation Groups: Volume 16, Issue 1 (2011), 71-89 (with G. Fourier, P. Littelmann).
19. *Zhu's algebra and the C_2 -algebra in the symplectic and the orthogonal cases*, J. Phys. A: Math. Theor. 43 (2010) 135206 (with P. Littelmann).
20. *Zhu's algebras, C_2 -algebras and abelian radicals*, Journal of Algebra 329 (2011) 130146 (with B. Feigin, P. Littelmann).
21. *Givental symmetries of Frobenius manifolds and multi-component KP tau-functions*, Advances in Mathematics 224 (2010), pp. 1031-1056 (with J. van de Leur, S.Shadrin).
22. *Fermionic formulas for eigenfunctions of the difference Toda Hamiltonian*, arXiv:0812.2306, Letters in Mathematical Physics: Volume 88, Issue 1 (2009), pp.39-77 (with B. Feigin, M. Jimbo, T. Miwa, E. Mukhin).
23. *The PBW Filtration, Demazure Modules and Toroidal Current Algebras*, SIGMA 4 (2008), 070, 21 pages.
24. *$N = 1$ formal genus 0 Gromov-Witten theories and Givental's formalism*, Journal of Geometry and Physics 59 (2009) pp. 1127-1136.
25. *Principal $\widehat{sl}(3)$ subspaces and quantum Toda Hamiltonian*, Advances in Pure Mathematics 54, Algebraic Analysis and Around, pp. 109-166, 2009 (with B. Feigin, M. Jimbo, T. Miwa, E. Mukhin).
26. *Fermionic formulas for $(1,p)$ logarithmic model characters in $\Phi_{2,1}$ quasi-particle realization*, Advanced Studies in Pure Mathematics 61, 161-184 (2011) (with B.Feigin, I.Tipunin).
27. *The PBW filtration*, MPIM 2007-14, Represent. Theory 13 (2009), 165-181.
28. *Infinite fusion products and \widehat{sl}_2 cosets*, Journal of Lie Theory, vol. 17 (2007), pp. 145-161.
29. *Two dimensional current algebras and affine fusion product*, J. Algebra 313 (2007), no. 1, 176-198 (with B. Feigin).
30. *Bosonic formulas for affine branching functions*, Funktsional. Anal. i Prilozhen. 42 (2008), no. 1, 63-77, 96.
31. *A $\phi_{1,3}$ -filtration on the Virasoro minimal series $M(p, p')$ with $1 < p'/p < 2$* , Publ. Res. Inst. Math. Sci. 44 (2008), no. 2, 213-257 (with B. Feigin, M. Jimbo, T. Miwa, Y. Takeyama).
32. *Principal subspace for the bosonic vertex operator $\phi_{\sqrt{2m}}(z)$ and Jack polynomials*, Advances in Mathematics, Volume 206 (2006), Issue 2, pp. 307-328 (with B. Feigin).
33. *Homological realization of restricted Kostka polynomials*, Int. Math. Res. Not. 2005, no. 33, 1997-2029 (with B. Feigin).
34. *Schubert varieties and the fusion products: the general case*, Int. Math. Res. Not. 2004, no. 59, 3153-3175.
35. *Schubert varieties and the fusion products*, Publ. Res. Inst. Math. Sci. 40 (2004), no. 3, 625-668 (with B. Feigin).

36. *Integrable \widehat{sl}_2 -modules as infinite tensor products*, Fundamental mathematics today, O. Sheinman, S. Lando eds., 304–334, Independent University of Moscow, 2003 (in Russian) (with B. Feigin).
37. *Q-characters of the tensor products in sl_2 -case*, Mosc. Math. J. 2 (2002), no. 3, 567–588 (with B. Feigin).