

LIST OF PUBLICATIONS

Roman Bezrukavnikov

- (1) *On Koszul DG-algebras Arising from Configuration Spaces*, GAFA Math. J., 4 (1994), 119-136.
- (2) *Dimension of the Fixed Point Sets on Affine Flag Manifolds*, Math. Research Letters, 4 (1996), 185-189.
- (3) *On tensor Categories Attached to Cells in Affine Weyl Groups*, Representation theory of algebraic groups and quantum groups, 69–90, Adv. Stud. Pure Math., 40, Math. Soc. Japan, Tokyo, 2004.
- (4) (with V. Ostrik) *On tensor Categories Attached to Cells in Affine Weyl Groups, II*, Representation theory of algebraic groups and quantum groups, 101–119, Adv. Stud. Pure Math., 40, Math. Soc. Japan, Tokyo, 2004.
- (5) *Quasi-exceptional sets and equivariant coherent sheaves on the nilpotent cone*, Represent. Theory **7** (2003), 1-18.
- (6) (with A. Braverman and L. Positselskii) *Gluing of abelian categories and differential operators on the basic affine space*, Journal of the Inst. of Math. Jussieu (2002) **1**(4), 543–557.
- (7) (with A. Polishchuk) *Kazhdan-Laumon category has infinite homological dimension*, appendix to the paper by A. Polishchuk “Gluing of perverse sheaves on the basic affine space”, Selecta Mathematica (New series) **7** (2001), no. 1, 144–146.
- (8) (with A. Beilinson and I. Mirkovic) *Tilting exercises*, Mosc. Math. J. **4** (2004), no. 3, 547–557.
- (9) parts of chapter 5 in: R. Bezrukavnikov, M. Finkelberg, V. Schechtman *Factorizable Sheaves and Quantum Groups*, Lecture Notes in Mathematics, 1691, Springer Verlag, Berlin, 1998.
- (10) (with L. Positselskii) *On semi-infinite cohomology of finite dimensional graded algebras*, Compositio Math., **146** (2010), no. 2, pp 480-496.
- (11) (with A. Braverman and I. Mirkovic) *Some results about the geometric Whittaker model*, Adv. Math. **186** (2004), no. 1, 143–152.
- (12) (with I. Mirkovic and D. Rumynin) *Localization of modules for a semisimple Lie algebra in prime characteristic*, With an appendix by Bezrukavnikov and Simon Riche. Ann. Math. (2) **167** (2008), no. 3, 945–991.

- (13) (with M. Finkelberg and I. Mirkovic) *Equivariant (K) -homology of affine Grassmannian and Toda lattice*, Compos. Math. **141** (2005), no. 3, 746–768.
- (14) (with S. Arkhipov and V. Ginzburg) *Quantum Groups, the loop Grassmannian, and the Springer resolution*, J. Amer. Math. Soc. **17** (2004), 595–678.
- (15) (with D. Kaledin) *Fedosov quantization in algebraic context*, Mosc. Math. J. **4** (2004), no. 3, 559–592.
- (16) (with D. Kaledin) *McKay equivalence for symplectic resolutions of singularities*, Tr. Mat. Inst. Steklova **246** (2004), Algebr. Geom. Metody, Svyazi i Prilozh., 20–42; translation in Proc. Steklov Inst. Math. 2004, no. 3 (246), 13–33.
- (17) (with I. Mirkovic and D. Rumynin) *Singular localization and intertwining functors for reductive Lie algebras in prime characteristic*, Nagoya Math. J. **184** (2006) 1–55.
- (18) (with D. Kaledin) *Fedosov quantization in positive characteristic*, J. Amer. Math. Soc. **21** (2008), no. 2, 409–438.
- (19) (with A. Braverman) *Geometric Langlands Correspondence for D -modules in Prime Characteristic: the $GL(n)$ Case*, Pure and Applied Mathematics Quarterly **3** (2007) no 1, 153–181.
- (20) *Noncommutative counterparts of the Springer resolution*, Proceeding of the International Congress of Mathematicians, Madrid, Spain, 2006, vol. 2, pp 1119–1144.
- (21) (with S. Arkhipov) *Perverse sheaves on affine flags and Langlands dual group*, Israel J. Math., **170** (2009), 135–184.
- (22) *Perverse sheaves on affine flags and nilpotent cone of the Langlands dual group*, Israel J. Math., **170** (2009), 185–206.
- (23) (with S. Arkhipov, A. Braverman, D. Gaietsgory, I. Mirković) *Modules over the small quantum group and semi-infinite flag manifold*, Transform. Groups **10** (2005), no. 3-4, 279–362.
- (24) (with V. Ginzburg) *On deformations of associative algebras*, Ann. of Math. (2) **166** (2007), no. 2, 533–548.
- (25) (with M. Finkelberg, V. Ostrik) *On tensor categories attached to cells in affine Weyl groups, III*, Isr. J. Math, **170** (2009), 207–234.
- (26) (with A. Lachowska) *The small quantum group and the Springer resolution*, in: *Quantum groups*, 89–101, Contemp. Math., 433, Amer. Math. Soc., Providence, RI, 2007.
- (27) (with M. Finkelberg and V. Ginzburg) *Cherednik algebras and Hilbert schemes in characteristic p* . With an appendix by Pavel Etingof. Represent. Theory **10** (2006), 254–298

- (28) (with M. Finkelberg) *Equivariant Satake Category and Kostant-Whittaker reduction*, Moscow Math. J. **8** (2008), no. 1, 39–72, 183.
- (29) *Cohomology of tilting modules over quantum groups, and t -structures on derived categories of coherent sheaves*, Inv. Math. **166** (2006), no 2, 327–357.
- (30) (with P. Etingof) *Parabolic induction and restriction functors for rational Cherednik algebras*, Selecta Math. (N.S.) **14** (2009), no. 3-4, 397–425.
- (31) (with L. Positselski) *On semi-infinite cohomology of finite dimensional graded algebras*, Compositio Math **146** (2010), no 2, 480-496.
- (32) (with D. Arinkin) *Perverse coherent sheaves*, Moscow Math J. **10** (2010) no 1, 3–29.
- (33) (with M. Finkelberg and V. Ostrik) *Character D -modules via Drinfeld center of Harsih-Chandra bimodules*, Inventiones Math. **188** (2012) no 3, 589–620.
- (34) (with I. Mirković, and an Appendix by E. Sommers) *Representations of semisimple Lie algebras in prime characteristic and the noncommutative Springer resolution*, Annals Math. **178** (2013) 835–919.
- (35) (with Z. Yun) *On Koszul duality for Kac-Moody groups*, Represent. Theory **17** (2013), 1-98.
- (36) (with S. Riche) *Affine braid group actions on derived categories of Springer resolutions*, Annales Scientifiques de l’Ecole Normale Supérieure **45** (2012), 535-599.
- (37) (with Q. Lin) *Highest weight modules at the critical level and noncommutative Springer resolution*, Contemp. Math. **565** (2012) 15–27.
- (38) (with R. Anno and I. Mirković) *Bridgeland stabilities for Slodowy slices and real variation of stabilities*, Moscow Math. J. **15** no 1 (2015), 1–17.
- (39) (with D. Kazhdan) *Geometry of second adjointness for p -adic groups*, Representation Theory **19** no 3 (2015) 299–332.
- (40) (with M. Finkelberg) *Wreath Macdonald polynomials and categorical McKay correspondence*, (with Appendix by Vadim Volodsky), Cambridge J. Math. **2** (2014), 163–190.
- (41) *On two geometric realizations of an affine Hecke algebra*, Publ. IHES **123**(1) (2016), 1–67.
- (42) (with D. Kazhdan and Y. Varshavsky) *On the stable center conjecture*, Astérisque **369** (2015), 27–97.

- (43) (with I. Losev) *Etingof conjecture for quantized quiver varieties*, to appear in *Inv. Math.*
- (44) (with M. Kapranov) *Microlocal sheaves and quiver varieties*, *Annales de la Faculté des sciences de Toulouse: Mathématiques*, **25** (2016), 473–516.
- (45) (with D. Kazhdan and Y. Varshavsky) *On the depth r Bernstein projector*, *Selecta Math. (N.S.)* **22** (2016), no. 4, 2271–2311.
- (46) Appendix to: A. Braverman, D. Kazhdan, *Bernstein components via Bernstein center*, *Selecta Math. (N.S.)* **22** (2016), no. 4, 2313–2323.
- (47) (with M. Liebeck, A. Shalev, P.-H. Tiep) *Character ratios, growth and random walks on finite groups of Lie type*, *Acta Mathematica*, **221** no 1 (2018), 1–57.
- (48) (with K. Vilonen) *Koszul Duality for Quasi-split Real Groups*, preprint arXiv:1510.08343, submitted.
- (49) (with R. Travkin) *Quantization of Hitchin integrable system via positive characteristic*, preprint arXiv:1603.01327, with an Appendix joint with T.-S. Chen and X. Zhu.
- (50) (with J. Bernstein and D. Kazhdan) *Deligne-Lusztig duality and wonderful compactification*, *Selecta Math. (N.S.)* 24 (2018), no 1, pp 7–20.
- (51) (with D. Kazhdan) *Character values and Hochschild homology*, in: *Proceedings Symposia in Pure Math*, vol. 101 (2019) “Representations of Reductive Groups”, 1–31.
- (52) (with I. Losev) *On Dimension Growth of Modular Irreducible Representations of Semisimple Lie algebras*, in: *Progress in Mathematics*, vol. 326 (2018) “Lie Groups, Geometry and Representations Theory”, 59–91.
- (53) (with D. Gaitsgory, I. Mirković, L. Rider and S. Riche) *An Iwahori-Whittaker model for the Satake category*, to appear in *Journal de l’École Polytechnique* **6** (2019), 707–735.
- (54) (with S. Riche) *A topological approach to Springer theory*, to appear in “Interactions between Representation Theory and Algebraic Geometry”, Birkhäuser (2019).
- (55) (with A. Yom Din) *On parabolic restriction of perverse sheaves*, preprint (2018), to appear in: *Publications of the Research Institute for Mathematical Sciences*.
- (56) (with A. Kapustin) *Localization properties of Chern insulators*, *Arnold Math. J.* **5** (2019), no. 1, 15–21.

- (57) (with M. Rovinsky) *0-cycles on Grassmannians as representations of projective groups*, Arnold Math. J. 5 (2019), no. 2-3, 373–385.
- (58) (with L. Rider and S. Riche) *Modular affine Hecke category and regular unipotent centralizer, I*, preprint arXiv:2005.05583
- (59) (with I. Losev) *Dimensions of modular irreducible representations of semisimple Lie algebras*, preprint arXiv: arXiv:2005.10030, submitted.
- (60) (with S. Riche) *Hecke action on the principal block*, preprint arXiv:2009.10587, submitted.
- (61) (with K. Tolmachov) *Monodromic model for Khovanov-Rozansky homology*, preprint arXiv:2008.11379, submitted.
- (62) *Koszul Property and Frobenius Splitting of Schubert Cells*, preprint, alg-geom/9502021.
- (63) *Perverse coherent sheaves (after Deligne)*, preprint arXiv:math/0005152.
- (64) *Homological properties of representations of p -adic groups related to geometry of the group at infinity*, preprint arXiv:math/0406223.
- (65) *On semi-infinite cohomology of finite dimensional algebras*, preprint arXiv:math/0005148.