

Mark Shimozono's Publications

- (1) (with Thomas Lam) Quantum cohomology of G/P and homology of affine Grassmannian. 0705.1386
- (2) (with Thomas Lam) Dual graded graphs for Kac-Moody algebras. math.CO/0702090
- (3) (with Thomas Lam, Luc Lapointe, and Jennifer Morse) Affine insertion and Pieri rules for the affine Grassmannian. math.CO/0609110
- (4) (with Allen Knutson) Kempf collapsing and quiver loci. math.AG/0608327
- (5) (with Masaki Kashiwara) Equivariant K-theory of affine flag manifolds and affine Grothendieck polynomials. math.AG/0601563
- (6) (with Anders S. Buch, Andrew Kresch, Harry Tamvakis, and Alexander Yong) Stable Grothendieck polynomials and K-theoretic factor sequences. math.CO/0601514
- (7) (with Cédric Lecouvey) Lusztig's q -analogue of weight multiplicity and one-dimensional sums for affine root systems. Adv. Math. 208 (2007), no. 1, 438–466.
- (8) (with Ghislain Fourier and Anne Schilling) Demazure structure inside Kirillov-Reshetikhin crystals. J. Algebra 309 (2007), no. 1, 386–404.
- (9) (with Thomas Lam) A Little bijection for affine Stanley symmetric functions. Sm. Lothar. Combin. 54A (2005/07), Art. B54Ai, 12 pp.
- (10) (with Allen Knutson and Ezra Miller) Four positive formulae for type A quiver polynomials, Invent. Math. 166 (2006), no. 2, 229–325. math.AG/0308142
- (11) (with Anne Schilling) $X = M$ for symmetric powers. J. Algebra 295 (2006), no. 2, 562–610.
- (12) (with Mike Zabrocki) Deformed universal characters for classical and affine algebras. J. Algebra 299 (2006), no. 1, 33–61.
- (13) (with Anne Schilling and Dennis White) Branching formula for q -Littlewood-Richardson coefficients. Formal power series and algebraic combinatorics (Scottsdale, AZ, 2001). Adv. in Appl. Math. 30 (2003), no. 1-2, 258–272.
- (14) (with Masato Okado and Anne Schilling) Virtual crystals and Kleber's algorithm, Comm. Math. Phys. 238 (2003), no. 1-2, 187–209. math.QA/0209082.
- (15) (with Masato Okado and Anne Schilling) A crystal to rigged configuration bijection for nonexceptional affine algebras, “Algebraic Combinatorics and Quantum Groups”, Edited by N. Jing, World Scientific (2003), 85-124. math.QA/0203163
- (16) (with Masato Okado and Anne Schilling) A tensor product theorem related to perfect crystals, J. Algebra **267** (2003), 212-245. math.QA/0111288
- (17) (with Masato Okado and Anne Schilling) Virtual crystals and fermionic formulas of type $D_{n+1}^{(2)}$, $A_{2n}^{(2)}$, and $C_n^{(1)}$, Represent. Theory 7 (2003), 101–163 (electronic). math.QA/0105017
- (18) (with Anne Schilling) Fermionic formulas for level-restricted generalized Kostka polynomials and coset branching functions. Comm. Math. Phys. 220 (2001), no. 1, 105–164. math.QA/0001114
- (19) (with Anatol N. Kirillov) A generalization of the Kostka-Foulkes polynomials. J. Algebraic Combin. 15 (2002), no. 1, 27–69. math.QA/9803062

- (20) (with Dennis E. White) Color-to-spin ribbon Schensted algorithms. Formal power series and algebraic combinatorics (Barcelona, 1999). *Discrete Math.* 246 (2002), no. 1-3, 295–316.
- (21) (with Masato Okado and Anne Schilling) Crystal bases and q -identities. q -series with applications to combinatorics, number theory, and physics (Urbana, IL, 2000), 29–53, *Contemp. Math.*, 291, Amer. Math. Soc., Providence, RI, 2001. [math.QA/0104268](#)
- (22) (with Anne Schilling) Bosonic formula for level-restricted paths. *Combinatorial methods in representation theory* (Kyoto, 1998), 305–325, *Adv. Stud. Pure Math.*, 28, Kinokuniya, Tokyo, 2000. [math.QA/9812106](#)
- (23) (with Dennis E. White) A color-to-spin domino Schensted algorithm. *Electron. J. Combin.* 8 (2001), no. 1, Research Paper 21, 50 pp. (electronic). [link](#)
- (24) (with Anatol N. Kirillov and Anne Schilling) A bijection between Littlewood-Richardson tableaux and rigged configurations. *Selecta Math.* (N.S.) 8 (2002), no. 1, 67–135. [math.CO/9901037](#)
- (25) Affine type A crystal structure on tensor products of rectangles, Demazure characters, and nilpotent varieties. *J. Algebraic Combin.* 15 (2002), no. 2, 151–187. [math.QA/9804039](#)
- (26) A cyclage poset structure for Littlewood-Richardson tableaux. *European J. Combin.* 22 (2001), no. 3, 365–393. [math.QA/9804037](#)
- (27) (with Mike Zabrocki) Hall-Littlewood vertex operators and generalized Kostka polynomials. *Adv. Math.* 158 (2001), no. 1, 66–85. [math.QA/0001168](#)
- (28) Multi-atoms and monotonicity of generalized Kostka polynomials. *European J. Combin.* 22 (2001), no. 3, 395–414. [math.QA/9804038](#)
- (29) (with J. Klimek, W. Kraśkiewicz, J. Weyman) On the Grothendieck group of modules supported in a nilpotent orbit in the Lie algebra $\mathfrak{gl}(n)$. *J. Pure Appl. Algebra* 153 (2000), no. 3, 237–261.
- (30) (with J. Weyman) Graded characters of modules supported in the closure of a nilpotent conjugacy class. *European J. Combin.* 21 (2000), no. 2, 257–288. [math.QA/9804036](#)
- (31) On modules supported in the nullcone. *Formal power series and algebraic combinatorics* (Moscow, 2000), 67–75, Springer, Berlin, 2000.
- (32) (with Anne Schilling) New expressions for level-restricted Kostka polynomials. *Formal power series and algebraic combinatorics* (Moscow, 2000), 367–378, Springer, Berlin, 2000.
- (33) (with J. Weyman) Bases for coordinate rings of conjugacy classes of nilpotent matrices. *J. Algebra* 220 (1999), no. 1, 1–55.
- (34) Multiplying Schur Q -functions. *J. Combin. Theory Ser. A* 87 (1999), no. 1, 198–232.
- (35) (with Vic Reiner) Flagged Weyl modules for two column shapes. *J. Pure Appl. Algebra* 141 (1999), no. 1, 59–100.
- (36) (with Anatol N. Kirillov and Anne Schilling) Various representations of the generalized Kostka polynomials. *The Andrews Festschrift* (Maratea, 1998). *Sm. Lothar. Combin.* 42 (1999), Art. B42j, 19 pp. (electronic). [link](#)
- (37) (with Vic Reiner) Percentage-avoiding, northwest shapes and peelable tableaux. *J. Combin. Theory Ser. A* 82 (1998), no. 1, 1–73.

- (38) (with J. B. Remmel) A simple proof of the Littlewood-Richardson rule and applications. Selected papers in honor of Adriano Garsia (Taormina, 1994). *Discrete Math.* 193 (1998), no. 1-3, 257–266.
- (39) (with Sergey Fomin, Curtis Greene, Vic Reiner) Balanced labellings and Schubert polynomials. *European J. Combin.* 18 (1997), no. 4, 373–389.
- (40) (with Vic Reiner) Straightening for standard monomials on Schubert varieties. *J. Algebra* 195 (1997), no. 1, 130–140.
- (41) Specht modules for column-convex diagrams: characteristic-free results for Weyl modules. Addendum to: "Specht series for column-convex diagrams" [*J. Algebra* 174 (1995), no. 2, 489–522] by M. Shimozono and V. Reiner. *J. Algebra* 192 (1997), no. 2, 810–822.
- (42) (with Vic Reiner) Specht series for column-convex diagrams. *J. Algebra* 174 (1995), no. 2, 489–522.
- (43) (with Vic Reiner) Plactification. *J. Algebraic Combin.* 4 (1995), no. 4, 331–351.
- (44) (with Vic Reiner) Key polynomials and a flagged Littlewood-Richardson rule. *J. Combin. Theory Ser. A* 70 (1995), no. 1, 107–143.