

Publications for Gus Lehrer

2017

Srinivasan, B., Collins, M., Lehrer, G. (2017). Special issue in memory of Professor James Alexander ("Sandy") Green. *Journal of Algebra*, 475, 1-3. [More Information]

Lehrer, G., Zhang, R. (2017). The First Fundamental Theorem of Invariant Theory for the Orthosymplectic Supergroup. *Communications in Mathematical Physics*, 349(2), 661-702. [More Information]

2015

Andersen, H., Lehrer, G., Zhang, R. (2015). Cellularity of certain quantum endomorphism algebras. *Pacific Journal of Mathematics*, 279(1), 11-35. [More Information]

Lehrer, G., Zhang, R. (2015). The Brauer category and invariant theory. *Journal of the European Mathematical Society*, 17(9), 2311-2351. [More Information]

2014

Digne, F., Lehrer, G., Michel, J. (2014). On character sheaves and characters of reductive groups at unipotent classes. *Pure and Applied Mathematics Quarterly*, 10(3), 459-512. [More Information]

2012

Dimca, A., Lehrer, G. (2012). Hodge-Deligne equivariant polynomials and monodromy of hyperplane arrangements. *Configuration Spaces: Geometry, Combinatorics and Topology*, Pisa: Scuola normale superiore di Pisa.

Lehrer, G., Zhang, R. (2012). Quantum group actions on rings and equivariant K-theory. *Contemporary Mathematics*, 565, 115-141. [More Information]

Lehrer, G., Zhang, R. (2012). The second fundamental theorem of invariant theory for the orthogonal group. *Annals of Mathematics*, 176(3), 2031-2054. [More Information]

2011

Lehrer, G., Zhang, H., Zhang, R. (2011). A Quantum Analogue of the First Fundamental Theorem of Classical Invariant Theory. *Communications in Mathematical Physics*, 301, 131-174. [More Information]

Lehrer, G., Nakano, D., Zhang, R. (2011). Detecting cohomology for Lie superalgebras. *Advances in Mathematics*, 228(4), 2098-2115. [More Information]

Dyer, M., Lehrer, G. (2011). Reflection subgroups of finite and affine Weyl groups. *Transactions of the American Mathematical Society*, 363(11), 5971-6005. [More Information]

Dyer, M., Lehrer, G. (2011). Root subsystems of loop extensions. *Transformation Groups*, 16(3), 767-781. [More Information]

2010

Lehrer, G., Zhang, R. (2010). A Temperley-Lieb Analogue for the BMW Algebra. In A Gyoja, H Nakajima, K Shinoda, T Shoji, T Tanisaki (Eds.), *Representation Theory of Algebraic Groups and Quantum Groups*, (pp. 155-190). New York: Birkhauser (imprint of Springer).

2009

Henderson, A., Lehrer, G. (2009). The equivariant Euler characteristic of real Coxeter toric varieties. *Bulletin of the London Mathematical Society*, 41(3), 515-523. [More Information]

Lehrer, G., Taylor, D. (2009). *Unitary Reflection Groups*. United States of America: Cambridge University Press.

2008

Lehrer, G., Zhang, R. (2008). On Endomorphisms of Quantum Tensor Space. *Letters in Mathematical Physics*, 86, 209-227. [More Information]

Lehrer, G. (2008). Rational points and Coxeter group actions on the cohomology of toric varieties. *Annales de l'Institut Fourier*, 58(2), 671-688.

2007

Lehrer, G., van Hamel, J. (2007). Euler characteristics of the real points of certain varieties of algebraic tori. *Proceedings of the London Mathematical Society*, 94(3), 715-748. [More Information]

2006

Kisin, M., Lehrer, G. (2006). Eigenvalues of Frobenius and Hodge numbers. *Pure and Applied Mathematics Quarterly*, 2(2), 497-518.

Lehrer, G., Zhang, R. (2006). Strongly multiplicity free modules for Lie algebras and quantum groups. *Journal of Algebra*, 306(1), 138-174. [More Information]

Bonnafe, C., Lehrer, G., Michel, J. (2006). Twisted invariant theory for reflection groups. *Nagoya Mathematical Journal*, 182, 135-170.

2005

Lehrer, G. (2005). Remarks concerning linear characters of reflection groups. *Proceedings of the American Mathematical*

Society, 133(11), 3163-3169. [More Information]

2000

Lehrer, G. (2000). Equivariant cohomology of configurations in *Rn. Algebras and Representation Theory*, 3, 373-384.

2004

Lehrer, G. (2004). A New Proof Of Steinberg's Fixed-Point Theorem. *International Mathematics Research Notices*, 2004 (28), 1407-1411.

Graham, J., Lehrer, G. (2004). Cellular Algebras And Diagram Algebras In Representation Theory. *Mathematical Society of Japan's 10th International Conference : Representation Theory of Algebraic Groups and Quantum Groups*, Tokyo, Japan: Mathematical Society of Japan.

Lehrer, G. (2004). Generalised Euler Characteristics of Varieties of Tori in Lie Groups. *Resenhas do Instituto de Matematica e Estatistica da Universidade de Sao Paulo*, 6, 257-264.

Lehrer, G. (2004). Rational Points And Cohomology Of Discriminant Varieties. *Advances in Mathematics*, 186(1), 229-250. [More Information]

2003

Graham, J., Lehrer, G. (2003). Diagram algebras, Hecke algebras and decomposition numbers at roots of unity. *Annales Scientifiques de l'Ecole Normale Supérieure*, 36(4), 479-524. [More Information]

Lehrer, G., Michel, J. (2003). Invariant theory and eigenspaces for unitary reflection groups. *Academie des Sciences. Comptes Rendus. Mathematique*, 336(10), 795-800. [More Information]

Digne, F., Lehrer, G., Michel, J. (2003). The space of unipotently supported class functions on a finite reductive group. *Journal of Algebra*, 260(1), 111-137. [More Information]

2002

Kisin, M., Lehrer, G. (2002). Equivariant Poincare polynomials and counting points over finite fields. *Journal of Algebra*, 247, 435-451. [More Information]

Lehrer, G. (2002). Geometric themes in representation theory (in Chinese). *Algebra in the 21st Century*, (pp. 33-49). Beijing: Beijing University Press.

Graham, J., Lehrer, G. (2002). The two-step nilpotent representations of the extended affine Hecke algebra of type A. *Compositio Mathematica*, 133, 173-197.

2001

Blair, J., Lehrer, G. (2001). Cohomology actions and centralisers in unitary reflection groups. *Proceedings of the London Mathematical Society*, 83(3), 582-604.

Lehrer, G., Segal, G. (2001). Homology stability for classical regular semisimple varieties. *Mathematische Zeitschrift*, 236(2), 251-290.

Lehrer, G., Xi, N. (2001). On the injectivity of the Braid group in the Hecke algebra. *Bulletin of the Australian Mathematical Society*, 64, 487-493.