

## List of publications of M. Domokos

1. M. Domokos, Goldie's Theorems for involution rings, *Commun. Algebra* 22 (1994), 371–380.
2. M. Domokos, Eulerian polynomial identities and algebras satisfying a standard identity, *J. Algebra* 169,(1994), 913–928.
3. M. Domokos, On algebras satisfying symmetric identities, *Archiv der Mathematik* 63 (1994), 407–413, Correction, *ibid.* 64 (1995), 552.
4. M. Domokos, New identities for  $3 \times 3$  matrices, *Lin. Multilin. Algebra* 38 (1995), 207–213.
5. M. Domokos, A generalization of a theorem of Chang, *Commun. Algebra* 23 (1995), 4333–4342.
6. M. Domokos, Criteria for vanishing of Eulerian polynomials on  $n \times n$  matrices, *Lin. Algebra Appl.* 234 (1996) 181–195.
7. M. Domokos, Relatively free invariant algebras of finite reflection groups, *Trans. Amer. Math. Soc.* 348 (1996), 2217–2233.
8. M. Domokos, A. Popov, On the degree of nilpotency of the radical of relatively free algebras, *Math. Pannonica* (1997), 11–16.
9. M. Domokos, Invariants of quivers and wreath products, *Commun. Algebra* 26(9) (1998), 2807–2819.
10. M. Domokos, V. Drensky, A Hilbert-Nagata theorem in noncommutative invariant theory, *Trans. Amer. Math. Soc.* 350(7) (1998), 2797–2811.
11. M. Domokos, Cayley-Hamilton theorem for  $2 \times 2$  matrices over the Grassmann algebra, *Journal of Pure and Applied Algebra* 133 (1998),69–81.
12. M. Domokos, Polynomial ideals and identities of matrices, "Methods in Ring Theory", *Lecture Notes in Pure and Applied Mathematics* 198, (1998) Marcel Dekker, 83–95.
13. M. Domokos, Gröbner bases of certain determinantal ideals, *Beitr. Algebra Geom.* 40 (1999), 479–493.
14. M. Domokos, P. Hegedűs, Noether's bound for polynomial invariants of finite groups, *Arch. Math.* 74 (2000), 161–167.
15. M. Domokos: Relative invariants of  $3 \times 3$  matrix triples, *Lin. Multilin. Algebra* 47 (2000), 175–190.
16. M. Domokos, H. Lenzing, Invariant theory of canonical algebras, *J. Algebra* 228 (2000), 738–762.

17. M. Domokos, Poincaré series of semi-invariants of  $2 \times 2$  matrices, *Lin. Algebra Appl.* 310 (2000), 183–194.
18. M. Domokos, A. N. Zubkov, Semi-invariants of quivers as determinants, *Transform. Groups* 6, No. 1 (2001), 9–24.
19. M. Domokos, V. Drensky: Gröbner bases for the rings of special orthogonal and  $2 \times 2$  matrix invariants, *J. Algebra* 243 (2001), 706–716.
20. M. Domokos, Invariant theory of algebra representations, pp. 47–61 in *Algebra - Representation Theory, Constanta 2000* (ed. K. W. Roggenkamp and M. Stefanescu), NATO Science Series II. Mathematics, Physics and Chemistry 28, 2001, Kluwer.
21. M. Domokos, A. N. Zubkov, Semisimple representations of quivers in characteristic  $p$ , *Algebr. Represent. Theory* 5 (2002), 305–317.
22. M. Domokos, H. Lenzing, Moduli spaces for representations of concealed-canonical algebras, *J. Algebra* 251 (2002), 1–24.
23. M. Domokos, Relative invariants for representations of finite dimensional algebras, *Manuscr. Math.* 108 (2002), 123–133.
24. M. Domokos, Finite generating system of matrix invariants, *Math. Pannonica* 13 (2002), 175–181.
25. M. Domokos, S. G. Kuzmin, A. N. Zubkov, Rings of matrix invariants in positive characteristic, *J. Pure Appl. Alg.* 176 (2002), 61–80.
26. M. Domokos, On the dimension of faithful modules over finite dimensional basic algebras, *Lin. Alg. Appl.* 365 (2003), 155–157.
27. M. Domokos, T. H. Lenagan, Conjugation coinvariants of quantum matrices, *Bull. London Math. Soc.* 35 (2003), 117–127.
28. M. Domokos: Matrix invariants and the failure of Weyl’s theorem, in “Polynomial Identities and Combinatorial Methods” (ed. A. Giambruno, A. Regev, M. Zaicev), *Lecture Notes in Pure and Applied Mathematics* 235 (2003), 215–236, Marcel Dekker.
29. M. Domokos, R. Fiorese, T. H. Lenagan, Orbits for the adjoint coaction on quantum matrices, *J. Geom. Phys.* 47 (2003), 447–468.
30. M. Domokos, T. H. Lenagan, Weakly multiplicative coactions of quantized function algebras, *J. Pure Appl. Alg.* 183 (2003), 45–60.
31. M. Domokos, P. E. Frenkel, On orthogonal invariants in characteristic 2, *J. Algebra* 274 (2004), 662–688.

32. M. Domokos, T. H. Lenagan, Representation rings of quantum groups, *J. Algebra* 282 (2004), 103-128.
33. M. Domokos, P. E. Frenkel, Mod 2 indecomposable orthogonal invariants, *Adv. Math.* 192 (2005), 209-217.
34. M. Domokos, T. H. Lenagan, Quantized trace rings, *Quart. J. Math.* 56 (2005), 507-523.
35. M. Domokos, A quantum homogeneous space of nilpotent matrices, *Lett. Math. Phys.* 72 (2005), 39-50.
36. M. Domokos, Typical separating invariants, *Transform. Groups* 12 (2007), 49-63.
37. M. Domokos, Covariants and the no-name lemma, *J. Lie Theory* 18 (2008) Number 4, 839-849.
38. M. Domokos, Vector invariants of a class of pseudo-reflection groups and multisymmetric syzygies, *J. Lie Theory* 19 (2009), 507-525.
39. M. Domokos, On singularities of quiver moduli, *Glasgow Math. J.* 53 (2011), 131-139.
40. M. Domokos, Discriminant of symmetric matrices as a sum of squares and the orthogonal group, *Communications on Pure and Applied Mathematics* 64 (2011), 443-465.
41. M. Domokos, E. Szabó, Helly dimension of algebraic groups, *J. Lond. Math. Soc., II. Ser.* 84, No. 1, 19-34 (2011).
42. M. Domokos, A. Puskás, Multisymmetric polynomials in dimension three, *J. Algebra* 356 (2012), 283-303.
43. M. Domokos, V. Drensky, Defining relation for semi-invariants of three by three matrix triples, *J. Pure Appl. Alg.* 216 (2012), 2098-2105.
44. K. Ciszter, M. Domokos, On the generalized Davenport constant and the Noether number, *Cent. Eur. J. Math.* 11(9) (2013), 1605-1615.
45. M. Domokos, L. M. Fehér, R. Rimányi, Equivariant and invariant theory of nets of conics with an application to Thom polynomials, *J. of Singularities* 7 (2013), 1-20.
46. M. Domokos, Hermitian matrices with a bounded number of eigenvalues, *Lin. Alg. Appl.* 439 (12) (2013), 3964-3979.
47. M. Domokos, Invariant theoretic characterization of subdiscriminants, *Lin. Multilin. Alg.* 62 (2014), 63-73.

48. K. Cziszter, M. Domokos, The Noether number for the groups with a cyclic subgroup of index two, *J. Algebra* 399 (2014), 546-560.
49. K. Cziszter, M. Domokos, Groups with large Noether bound, *Ann. Inst. Fourier (Grenoble)* 64, no. 3 (2014), 909-944.
50. M. Domokos, M. Zubor, Commutative subalgebras of the Grassmann algebra, *Journal of Algebra and Its Applications*, Vol. 14 (2015), 1550125 (13 pages).
51. M. Domokos, D. Joó, On the equations and classification of toric quiver varieties, *Proceedings of the Royal Society of Edinburgh: Section A Mathematics*. Vol. 146 / Issue 02 / (2016), 265-295.
52. K. Cziszter, M. Domokos, A. Geroldinger, The interplay of invariant theory with multiplicative ideal theory and with arithmetic combinatorics, in: Scott T. Chapman, M. Fontana, A. Geroldinger, B. Olberding (Eds.), *Multiplicative Ideal Theory and Factorization Theory*, Springer-Verlag, 2016, pp. 43-95.
53. M. Domokos, V. Drensky, Noether bound for invariants in relatively free algebras, *J. Algebra* 463 (2016), 152-167.
54. M. Domokos, Degree bound for separating invariants of abelian groups, *Proc. Amer. Math. Soc.* 145 (2017), 3695-3708.
55. M. Domokos, V. Drensky, Rationality of Hilbert series in noncommutative invariant theory, *International Journal of Algebra and Computation* 27 (2017), 831-848.
56. M. Domokos, Applications of multisymmetric syzygies in invariant theory, pp. 159-174, in: *Rings, Polynomials and Modules*, Ed.: M. Fontana, S. Frisch, S. Glaz, F. Tartarone, P. Zanardo, Springer, 2017.
57. K. Cziszter, M. Domokos, Lower bounds on the Noether number, *Transform. Groups* 24 (2019), 823-834.
58. K. Cziszter, M. Domokos, I. Szöllősi, The Noether numbers and the Davenport constants of the groups of order less than 32, *Journal of Algebra* 510 (2018), 513-541.
59. M. Domokos, Polynomial bound for the nilpotency index of finitely generated nil algebras, *Algebra and Number Theory* 12:5 (2018), 1233-1242.
60. Judit Abardia-Evéquoz, Károly J. Böröczky, M. Domokos, Dávid Kertész,  $SL(m, \mathbb{C})$ -equivariant and translation covariant continuous tensor valuations, *Journal of Functional Analysis* 276 (2019), no. 11, 3325-3362.

61. M. Domokos, On syzygies for rings of invariants of abelian groups, *Advances in Rings, Modules and Factorizations*, Graz, Austria, February 19-23, 2018, Springer Proceedings in Mathematics & Statistics 321, pp. 105-124., 2020.
62. M. Domokos, V. Drensky, Constructive noncommutative invariant theory, *Transformation Groups* 26(1) (2021), 215-228.
63. M. Domokos, Characteristic free description of semi-invariants of  $2 \times 2$  matrices, *Journal of Pure and Applied Algebra* 224 (2020), p. 106220; Addendum to “Characteristic free description of semi-invariants of  $2 \times 2$  matrices” [*J. Pure Appl. Algebra* 224 (2020), no. 5, 106220], *Journal of Pure and Applied Algebra*, 224 (2020), p. 106270.
64. M. Domokos, V. Drensky, Cocharacters for the weak polynomial identities of the Lie algebra of  $3 \times 3$  skew-symmetric matrices, *Advances in Mathematics* 374, Paper: 107343 (2020).
65. K. J. Böröczky, M. Domokos, G. Solanes, Dimension of the space of unitary equivariant translation invariant tensor valuations, *Journal of Functional Analysis* 280 (2021), paper no.108862, 18 pages.
66. M. Domokos, Bound for the cocharacters of the identities of irreducible representations of  $\mathfrak{sl}_2(\mathbb{C})$ , *Turkish Journal of Mathematics* 46 (2022), 1749-1758.
67. M. Domokos, D. Joó, Low dimensional flow polytopes and their toric ideals, *Lin. Alg. Appl.* 654 (2022), 210-249.
68. M. Domokos, Separating monomials for diagonalizable actions, *Bull. London Math. Soc.*, DOI: 10.1112/blms.12722
69. M. Domokos, Matrix valued concomitants of  $SL_2(\mathbb{C})$ , *Transformation Groups*, <https://doi.org/10.1007/s00031-022-09745-5>