

Algebras – Associative

Computational Methods

16-04

- [1] Werner Bley and Henri Johnston. Computing generators of free modules over orders in group algebras. *J. Algebra*, 320(2):836–852, 2008.
- [2] Jon F. Carlson and Graham Matthews. Generators and relations for matrix algebras. *J. Algebra*, 300(1):134–159, 2006.
- [3] Alexander Chistov, Gábor Ivanyos, and Marek Karpinski. Polynomial time algorithms for modules over finite dimensional algebras. In *Proceedings of the 1997 International Symposium on Symbolic and Algebraic Computation (Kihei, HI)*, pages 68–74 (electronic), New York, 1997. ACM.
- [4] Edward L. Green, Lenwood S. Heath, and Craig A. Struble. Constructing homomorphism spaces and endomorphism rings. *J. Symbolic Comput.*, 32(1-2):101–117, 2001.
- [5] Timo Hanke. The isomorphism problem for cyclic algebras and an application. In *ISSAC 2007*, pages 181–186. ACM, New York, 2007.
- [6] Gábor Ivanyos and Klaus Lux. Treating the exceptional cases of the MeatAxe. *Experiment. Math.*, 9(3):373–381, 2000.
- [7] Gabriele Nebe and Allan Steel. Recognition of division algebras. *J. Algebra*, 322(3):903–909, 2009.
- [8] Bernd Souvignier. Decomposing homogeneous modules of finite groups in characteristic zero. *J. Algebra*, 322(3):948–956, 2009.
- [9] Katsushi Waki. Calculation of direct summands of *FG*-modules. *Sci. Rep. Hirosaki Univ.*, 44(2):193–200, 1997.