

LIST OF PUBLICATIONS BY ERIK DARPÖ

1. PUBLICATIONS IN INTERNATIONAL JOURNALS

- (1) Erik Darpö, Ernst Dieterich and Martin Herschend. In which dimensions does a division algebra over a given ground field exist? *L'Enseignement Mathématique* 51:255–263, 2005.
- (2) Erik Darpö. [On the classification of the real flexible division algebras](#), *Colloquium Mathematicum* 105(1):1–17, 2006.
- (3) Erik Darpö and Ernst Dieterich. [Real commutative division algebras](#), *Algebras and Representation Theory* 10(2):179–196, 2007.
- (4) Erik Darpö. [Normal forms for the \$\mathcal{G}_2\$ -action on the real symmetric \$7 \times 7\$ -matrices by conjugation](#), *Journal of Algebra* 312(2):668–688, 2007.
- (5) Erik Darpö. [Classification of pairs of rotations in finite-dimensional Euclidean space](#), *Algebras and Representation Theory* 12(2–5):333–342, 2009.
- (6) Erik Darpö. [Vector product algebras](#), *Bulletin of the London Mathematical Society* 41(5):898–902, 2009.
- (7) Erik Darpö. [Some modern developments in the theory of real division algebras](#), *Proceedings of the Estonian Academy of Sciences* 59(1):53–59, 2010 (review article).
- (8) José Antonio Cuenca Mira, Erik Darpö and Ernst Dieterich. [Classification of the finite dimensional absolute valued algebras having a non-zero central idempotent or a one-sided unity](#), *Bulletin des Sciences Mathématiques* 134:247–277, 2010.
- (9) Erik Darpö and Martin Herschend. [On the representation ring of the polynomial algebra over a perfect field](#), *Mathematische Zeitschrift* 265(3):601–615, 2010.
- (10) Erik Darpö and Abdellatif Rochdi. [Classification of the four-dimensional power-commutative real division algebras](#), *Proceedings of the Royal Society of Edinburgh: Section A Mathematics* 141(6):1207–1223, 2011.
- (11) Erik Darpö and Ernst Dieterich. [The double sign of a real division algebra of finite dimension greater than one](#), *Math. Nachr.* 285(13):1635–1642, 2012.
- (12) Erik Darpö and Christopher C. Gill. [The Loewy length of a tensor product of modules of a dihedral two-group](#), *Journal of Pure and Applied Algebra* 218(4): 760–776, 2014.
- (13) Erik Darpö and José Maria Pérez Izquierdo. [Autotopies and quasigroup identities: new aspects of non-associative division algebras](#), *Forum Mathematicum* 27(5): 2691–2745, 2015.
- (14) Erik Darpö. [Isotopes of Hurwitz algebras](#), *Mediterranean Journal of Mathematics* 15(2), Art. 52, 2018 (16 pages).
- (15) Erik Darpö and Osamu Iyama. [d-Representation-finite self-injective algebras](#), *Advances in Mathematics* 362, (2020) 106932 (50 pages).
- (16) Erik Darpö and Patrik Nystedt. [Von-Neumann finiteness and reversibility in some classes of non-associative algebras](#), *Algebras and Representation Theory* 24:1245–1258 (2021).
- (17) Aaron Chan, Erik Darpö, Osamu Iyama and René Marczinzik. [Periodic trivial extension algebras and fractionally Calabi–Yau algebras](#), *Annales Scientifiques de l'École Normale Supérieure*, 58(4): 461–507 (2025).

2. CONFERENCE PROCEEDINGS

- (17) Erik Darpö and Christopher C. Gill. The Loewy length of tensor products for dihedral two-groups. In *Proceedings of the 44th symposium on Ring Theory and Representation Theory*, pages 23–29, Symp. Ring Theory Represent. Theory Organ. Comm., Nagoya, 2012.
- (18) Erik Darpö and Christopher C. Gill. Decomposing tensor products for cyclic and dihedral groups. *Proceedings of the 45th symposium of Ring Theory and Representation Theory*, pages 24–28, Nago, 2013.

3. PREPRINTS

- (19) Erik Darpö, Álvaro Domínguez and María Martín Rodríguez. [Stable Research Networks with Bargaining and Heterogeneous Costs](#), March 2020. Working paper posted at SSRN (abstract no 3554831), 35 pages.
- (20) Erik Darpö and Melanija Mitrović. [Some results in constructive semigroup theory](#), arXiv:2103.07105 (2021), 27 pages.
- (21) Erik Darpö and Tor Kringeland. [Classification of the \$d\$ -representation-finite trivial extensions of quiver algebras](#), arXiv:2103.15380 (2021), 7 pages.

4. POPULAR SCIENCE

- (23) Erik Darpö. Reella vektorprodukter (“Real vector products”), *Normal* 55(4):157–165, 2007.

5. DOCTORAL THESIS:

- (24) Erik Darpö. [Problems in the classification theory of non-associative simple algebras](#). *Uppsala Dissertations in Mathematics* 62, Uppsala 2009.