

LISTA DE LUCRARI STIINTIFICE

ANA-LOREDANA AGORE

1. ARTICOLE PUBLICATE

- [32] A.L. Agore, **Classifying bicrossed products of two Taft algebras**, *Journal of Pure and Applied Algebra* **222** (2018), 914–930.
- [31] A.L. Agore, **The maximal dimension of unital subalgebras of the matrix algebra**, *Forum Mathematicum* **29** (2017), 1–5.
- [30] A.L. Agore, G. Militaru, **Hochschild products and global non-abelian cohomology for algebras. Applications**, *Journal of Pure and Applied Algebra* **221** (2017), 366–392.
- [29] A.L. Agore, G. Militaru, **Extending structures, Galois groups and supersolvable associative algebras**, *Monatshefte für Mathematik* **181** (2016), 1–33.
- [28] A.L. Agore, G. Militaru, **Jacobi and Poisson algebras**, *Journal of Noncommutative Geometry* **9** (2015), 1295–1342.
- [27] A.L. Agore, G. Militaru, **Classifying complements for groups. Applications**, *Annales de l'Institut Fourier* **65** (2015), 1349–1365.
- [26] A.L. Agore, G. Militaru, **Itô's theorem and metabelian Leibniz algebras**, *Linear and Multilinear Algebra* **63** (2015), 2187–2199.
- [25] A.L. Agore, G. Militaru, **On a type of commutative algebras**, *Linear Algebra and its Applications* **485** (2015), 222–249.
- [24] A.L. Agore, G. Militaru, **The global extension problem, crossed products and co-flag non-commutative Poisson algebras**, *Journal of Algebra* **426** (2015), 1–31.
- [23] A.L. Agore, **Free Poisson Hopf algebras generated by coalgebras**, *Journal of Mathematical Physics* **10** (2014), 083502.
- [22] A.L. Agore, G. Militaru, **Bicrossed products, matched pair deformations and the factorization index for Lie algebras**, *Symmetry, Integrability and Geometry: Methods and Applications* **10** (2014), 065, 16 pages.
- [21] A.L. Agore, G. Militaru, **Extending structures for Lie algebras**, *Monatshefte für Mathematik* **174** (2014), 169–193.
- [20] A.L. Agore, G. Militaru, **Extending structures I: the level of groups**, *Algebras and Representation Theory* **17** (2014), 831–848.

- [19] A.L. Agore, **Classifying complements for associative algebras**, *Linear Algebra and its Applications* **446** (2014), 345–355.
- [18] A.L. Agore, S. Caenepeel, G. Militaru, **Braidings on the category of bimodules, Azumaya algebras and epimorphisms of rings**, *Applied Categorical Structures* **22** (2014), 29–42.
- [17] A.L. Agore, G. Bontea, G. Militaru, **The classification of all crossed products $H_4 \# k[C_n]$** , *Symmetry, Integrability and Geometry: Methods and Applications* **10** (2014), 049, 12 pages.
- [16] A.L. Agore, G. Bontea, G. Militaru, **Classifying bicrossed products of Hopf algebras**, *Algebras and Representation Theory* **17** (2014), 227–264.
- [15] A.L. Agore, G. Militaru, **Unified products for Leibniz algebras. Applications**, *Linear Algebra and its Applications* **439** (2013), 2609–2633.
- [14] A.L. Agore, G. Militaru, **Classifying complements for Hopf algebras and Lie algebras**, *Journal of Algebra* **391** (2013), 193–208.
- [13] A.L. Agore, **Crossed product of Hopf algebras**, *Communications in Algebra* **40** (2013), 2519 – 2542.
- [12] A.L. Agore, G. Bontea, G. Militaru, **Classifying coalgebra split extensions of Hopf algebras**, *Journal of Algebra and its Applications* **12** (2013), 1250227, 24 pages.
- [11] A.L. Agore, **Coquasitriangular structures for extensions of Hopf algebras. Applications**, *Glasgow Mathematical Journal* **55** (2013), 201 – 215.
- [10] A.L. Agore, G. Militaru, **Unified products and split extensions of Hopf algebras**, *Contemporary Mathematics – American Mathematical Society* **585** (2013), 1 – 15.
- [9] A.L. Agore, S. Caenepeel, G. Militaru, **The center of the category of bimodules and descent data for non-commutative rings**, *Journal of Algebra and its Applications* **11** (2012), 1250102, 17 pages.
- [8] A.L. Agore, G. Militaru, **Schreier type theorems for bicrossed products**, *Central European Journal of Mathematics* **2** (2012), 722–739.
- [7] A.L. Agore, G. Militaru, **Extending structures II: The quantum version**, *Journal of Algebra* **336** (2011), 321–341.
- [6] A.L. Agore, **Limits of coalgebras, bialgebras and Hopf algebras**, *Proceedings of the American Mathematical Society* **139** (2011), 855–863.
- [5] A.L. Agore, **Categorical constructions for Hopf algebras**, *Communications in Algebra* **39** (2011), 1476–1481.
- [4] A.L. Agore, D. Fratila, **Crossed product of cyclic groups**, *Czechoslovak Mathematical Journal* **60** (2010), 889–901.
- [3] A.L. Agore, **Monomorphisms of coalgebras**, *Colloquium Mathematicum* **120** (2010), 149–155.

- [2] A.L. Agore, A. Chirvasitu, B. Ion, G. Militaru **Bicrossed products for finite groups**, *Algebras and Representation Theory* **12** (2009), 481–488.
- [1] A.L. Agore, G. Militaru, **Crossed product of groups. Applications**, *Arabian Journal for Science and Engineering* **33** (2008), 1–18.

2. ARTICOLE TRIMISE SPRE PUBLICARE

- [36] A.L. Agore, L. Năstăsescu, **Bicrossed products with the Taft algebra**, 12 pagini, arXiv:1712.06095.
- [35] A.L. Agore, **Constructing Hopf braces**, 14 pagini, arXiv:1707.03033.
- [34] A.L. Agore, **Hopf algebras which factorize through the Taft algebra $T_{m^2}(q)$ and the group Hopf algebra $K[C_n]$** , 16 pagini, arXiv:1611.05674.
- [33] A.L. Agore, G. Militaru, **Galois groups and group actions on Lie algebras**, 22 pagini, arXiv:1505.07346.

3. CARTI

- [2] A.L. Agore, G. Militaru, **Extending structures; Fundamentals and Applications**, aprox. 250 pagini, va apărea în seria *Monographs and Research Notes in Mathematics* publicată de **Taylor & Francis Group**
- [1] A.L. Agore, **Categorical constructions, braidings on monoidal categories and bicrossed products of Hopf algebras**, VUB Press, 199 + xx pagini, ISBN 978-90-5718-212-9; PhD Thesis, Vrije Universiteit Brussel, 2012.

4. NOTE DE CURS

Lecture notes on category theory, Vrije Universiteit Brussel, disponibilă la http://homepages.vub.ac.be/~aagore/files/Course_2017.pdf