

Articole stiintifice publicate

1. Monoidal ring and coring structures obtained from wreaths and cowreaths, *Algebras and Representation Theory* 17 (2014), 1035-1082 (cu S. Caenepeel).
2. On Doi-Hopf modules and Yetter-Drinfeld modules in symmetric monoidal categories, *Bull. Belg. Math. Soc. Simon Stevin* 21 (2014), 89-115 (cu B. Torrecillas).
3. On cross product Hopf algebras. *J. Algebra* 377 (2013), 1-48 (cu S. Caenepeel si B. Torrecillas).
4. Algebras Graded by Discrete Doi-Hopf Data and the Drinfeld Double of a Hopf Group-Coalgebra, *Algebras and Representation Theory* 16(1) (2013), 155-192 (cu S. Caenepeel).
5. Quasi-bialgebra Structures and Torsion-free Abelian Groups, *Buletin Mathématique de la Société des Sciences Mathématiques de Roumanie* 56 (104)(2013), 247-265 (cu A. Ardizzoni si C. Menini).
6. On integrals and cointegrals for quasi-Hopf algebras, *J. Algebra* 351 (2012), 390-425 (cu S. Caenepeel).
7. A monoidal structure on the category of relative Hopf modules, *Journal of Algebra and its applications* 11 (2012), 1250026 (22 pages) (cu S. Caenepeel).
8. The braided monoidal structures on the category of vector spaces graded by the Klein group, *Proceedings of the Edinburgh Mathematical Society* 54 (2011), 613-641 (cu S. Caenepeel si B. Torrecillas).
9. A Clifford algebra is a weak Hopf algebra in a suitable symmetric monoidal category, *J. Algebra* 332 (2011), 244-284.
10. The weak braided Hopf algebra structure of some Cayley-Dickson algebras, *J. Algebra* 322 (2009), 2404-2427.
11. On the antipode of a co-Frobenius (co)quasitriangular Hopf algebra, *Comm. Algebra* 37 (2009), 2981-2993 (cu M. Beattie).
12. Involutory (dual) quasi-Hopf algebras, *Algebras and Representation Theory* 12 (2-5) (2009), 257-285 (cu S. Caenepeel si B. Torrecillas)
13. Braided Hopf algebras obtained from coquasitriangular Hopf algebras, *Comm. Math. Phys.* 282 (2008), no. 1, 115-160 (cu M. Beattie).
14. The representation-theoretic rank of the doubles of quasi-quantum groups, *J. Pure Appl. Algebra* 212 (2008), no. 4, 919-940 (cu B. Torrecillas).
15. Balanced bilinear forms for corings, in *Modules and Comodules, Trends in Mathematics*, 87-99, Birkhauser Basel, 2008 (cu M. Beattie si S. Raianu).
16. Radford's Σ^4 formula for co-Frobenius Hopf algebras, *J. Algebra* 307 (2007), no. 1, 330-342 (cu M. Beattie si B. Torrecillas).
17. Corings in monoidal categories, in *New techniques in Hopf algebras and graded ring theory*, 53-78, K. Vlaam. Acad. Belgie Wet. Kunsten (KVAB), Brussels, 2007 (cu S. Caenepeel).
18. Two-sided two-cosided Hopf modules and Yetter-Drinfeld modules for quasi-Hopf algebras, *Applied Categorical Structures*, 28 (2006), no. 5-6, 503-530 (cu B. Torrecillas).
19. Doi-Hopf modules and Yetter-Drinfeld modules for quasi-Hopf algebras, *Comm. Algebra* 34 (2006), no. 9, 3413-3449 (cu S. Caenepeel).
20. Generalized diagonal crossed products and smash products for (quasi) Hopf algebras, *Comm. Math. Phys.* 266 (2006), no. 2, 355-399 (cu F. Panaite si F. Van Oystaeyen).

21. Yetter-Drinfeld categories for quasi-Hopf algebras, *Comm. Algebra* 34 (2006), no. 1, 1-35 (cu F. Panaite si S. Caenepeel).
22. More properties of Yetter-Drinfeld modules over quasi-Hopf algebras, in "Hopf algebras in non-commutative geometry and physics", Caenepeel S. and Van Oystaeyen, F. (eds.), *Lecture Notes Pure Appl. Math.*, Dekker, New York, 2004, 89-112 (cu F. Panaite si S. Caenepeel).
23. Factorizable quasi-Hopf algebras. Applications, *J. Pure Appl. Algebra* 194 (2004), 39-84. (cu B. Torrecillas).
24. Two-sided two-cosided Hopf modules and Doi-Hopf modules for quasi-Hopf algebras, *J. Algebra* 270 (2003), no. 1, 55-95 (cu S. Caenepeel).
25. Integrals for (dual) quasi-Hopf algebras. Applications, *J. Algebra* 266 (2003), no. 2, 552-583 (cu S. Caenepeel).
26. The Quantum double for quasitriangular quasi-Hopf algebras, *Comm. Algebra* 31 (2003), no. 3, 1403-1425 (cu S. Caenepeel).
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35. On the antipode of semi-Hopf algebras and braided semi-Hopf algebras, *Rev. Roumaine Math. Pures Appl.*, 44(1999), no. 3, 329-340.
36. A Generalization of the Quasi-Hopf Algebra $D^{\text{co}}(G)$, *Comm. Algebra*, 26 (1998), no. 12, 4125-4141 (cu F. Panaite).
37. Modules Graded by G-Sets. Duality and Finiteness Conditions, *J. Algebra* 195 (1997), 624-633 (cu S. Dascalescu si L. Grunenfelder).
38. On Frobenius and separable algebra extensions in monoidal categories. Applications to wreaths, acceptata spre publicare in *Journal of Noncommutative. Geometry* (cu B. Torrecillas).

TextBook

Algebras and coalgebras in braided monoidal categories, Ed. Univ. Bucuresti 2009, ISBN 978-973-737-718-0 (170p).