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## **LISTA PUBLICATIILOR**

### **Articole publicate (ISI-Web of Science):**

- 1) *Nontriviality of the first Hochschild cohomology of some block algebras of finite groups*, **J. of Pure and Appl. Algebra** **227(2023)**, 107192.
- 2) *Hochschild cohomology of some finite category algebras as simplicial cohomology*, **Mathematical Notes** (2022) (joint work with I. I. Simion).
- 3) *Symmetric Hochschild cohomology of twisted group algebras*, **Homology Homotopy and Applications** **24(1) (2022)**, 93-115(joint work with T. Coconet).
- 4) *BD algebras and group cohomology*, **Comptes Rendu Mathematique** **359(8) (2021)**,925-937
- 5) *Domination of blocks, fusion systems and hyperfocal subgroups*, **J. Algebra** **549 (2020)**, 30-44 (joint work with T. Coconet).
- 6) *Block extensions, local categories and basic Morita equivalences*, **Quart. J. Math.** **71 (2020)**, 703–728 ((joint work with. T. Coconet and A. Marcus).
- 7) *Fusions and Clifford extensions*, **J. Group Theory** **22 (2019)**, 169-190 (joint work with. T. Coconet and A. Marcus).
- 8) *On some saturated triples and hyperfocal subgroups*, **J. Algebra** **499 (2018)**, 358-374.
- 9) *Bockstein homomorphisms for Hochschild cohomology of group algebras and of blocks of finite groups*, **Forum Mathematicum** **29 (3) (May 2017)**, 717-735.
- 10) *Frobenius induction for algebras*, **Comm. Algebra** **45 (4) (2017)**, 1542-1557 (joint work with. T. Coconet and A. Marcus).
- 11) *Basic Morita equivalences and a conjecture of Sasaki for cohomology of block algebras of finite groups*, **Quart. J. Math.** **67 (2016)**, 109-123.
- 12) *A theorem of Mislin for cohomology of fusion systems and applications to block algebras of finite groups*, **Expo. Math.** **33 (2015)**, 526-534.
- 13) *Symmetric cohomology of groups as a Mackey functor*, **Bull. Belg. Math. Soc. Simon Stevin** **22 (2015)**, 49-58.
- 14) *On cohomology of saturated fusion systems and support varieties*, **J. Algebra** **402 (2014)**, 83-91.

- 15) *The extended Brauer quotient of  $N$ -interior  $G$ -algebras*, **J. Algebra** **396** (2013), 10-17 (joint work with T. Coconet)
- 16) *Symmetric algebras, skew category algebras and inverse semigroups*, **J. Algebra** **369** (2012), 226-234.
- 17) *Restriction between cohomology algebras of blocks of finite groups*, **Algebr. Represent. Theory** **14** (2011), 731-749.

**Alte publicații (International Data Basis (BDI) sau pentru activitatea didactică):**

- 1) *Concursul zonal de matematică „Mens Sana” Ediția a III-a Câmpeni județul Alba*, **Gazeta Matematică-B**, Anul CXXII, nr 2/2017, 69-72 (joint work with Vasile Pop).
- 2) *Concursul zonal de matematică „Mens Sana” Ediția a II-a Câmpeni județul Alba*, **Gazeta Matematică-B**, Anul CXXI, nr 1/2016, 17-20 (joint work with Vasile Pop).
- 3) *Concursul zonal de matematică „Mens Sana...” Ediția I Câmpeni județul Alba*, **Gazeta Matematică-B**, Anul CXX, nr 3/2015, 127-130 (joint work with Vasile Pop).
- 4) *Hochschild cohomology of fully group-graded algebras as Mackey functor*, **Annals of Tiberiu Popovici Seminar** **12** (2014), 3-8 (joint work with T. Coconet).
- 5) *On finite generation of Hochschild cohomology algebras of some fully group graded algebras*, **Mathematica (Cluj) Tome** **55 (78)** no. 1 (2013), 89-98.
- 6) *Some remarks on restriction maps between cohomology of fusion systems*, **Stud. Univ. Babeș-Bolyai Math.** **58** (4) (2013), 443-447.
- 7) *On saturated triples associated to some block algebras of finite groups*, **Stud. Univ. Babeș-Bolyai Math.** **58** (1) (2013), 5-8.
- 8) *On parabolic subalgebras of inverse-symmetric algebras*, **Automat. Comput. Appl. Math.** **22** (1) (2013), 203-206.
- 9) *On induction for non-interior  $G$ -algebras and Puig's induction for interior  $G$ -algebras*, **Automat. Comput. Appl. Math.** **21** (1) (2012), 29-34 (joint work with T. Coconet).
- 10) *On skew group algebras and symmetric algebras*, **Stud. Univ. Babeș-Bolyai Math.** **57** (1) (2012), 11-14.
- 11) *Remarks on generalized Brauer pairs*, **Mathematica (Cluj) Tome** **53 (76)** no. 1 (2011), 91-96.
- 12) *Remarks on varieties in block cohomology*, **Automat. Comput. Appl. Math.** **19** (2) (2010), 391-396.

- 13) *New stable elements in Hochschild cohomology algebra*, **Mathematica (Cluj) Tome 52 (75)** no. 1 (2010), 75-84 (published with some errors).
- 14) *Remarks on definition of group cohomology*, **Automat. Comput. Appl. Math.** **19** (1) (2010), 193-197.

### **Cărti, capitole din cărți:**

- 1) TEZA DE DOCTORAT: *Coomologia grupurilor și a blocurilor algebrelor grupale*, Editura Fundației pentru Studii Europene, 2010, ISBN 978-606-526-057-3
- 2) *Special Mathematics. Problems*, U.T. Press, 2014, ISBN 978-973-662-988-4, (joint work with Prof. D. Popa).
- 3) *Teste grilă de matematică Admitere 2015-2024*, colectiv UTCN-coordonator Prof. Dr. D. M. Ivan;  
(de ex. U. T. Press, 2015, ISBN 978-606-737-009-6).

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