

Dr. Florin Felix NICHITA

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List of publications and preprints:

1. *Lie algebras and Yang-Baxter equations*, preprint, *arXiv:1107.0920*, 5 July 2011.
2. *Algebraic Models for Transdisciplinarity*, published on-line by Centre International de Recherches et Etudes Transdisciplinaires (CIRET); *Pratique de la transdisciplinarite*; March 2011 (<http://basarab.nicolescu.perso.sfr.fr/ciret>).
3. *On an algebraic model for Transdisciplinarity (in Romanian)*, published on-line by The Institute for Transdisciplinary Studies in Science, Spirituality, Society; *Articles*; February 2011 (<http://www.it4s.ro>).
4. *Algebra Structures Arising from Yang-Baxter Systems*, preprint, *arXiv:1005.0989* (with Barbu R. Berceanu and Calin Popescu).
5. *Yang-Baxter operators from algebra structures and Lie superalgebras*, *Acta Universitatis Apulensis*, 29 / 2012, to appear (with Bogdan P. Popovici).
6. *Yang-Baxter operators from (G, θ) -Lie algebras*, *Romanian Reports in Physics*, Vol. 63, Number 3, P. 641-650, 2011 (with Bogdan P. Popovici).
7. *The Energy and the Entropy of Hybrid Multi-Agent Systems*, *Proceedings of ICVL , International Conference on Virtual Learning, Cluj-Napoca, 28-29 Octombrie 2011*, Editors: Marin Vlada, Grigore Albeanu, Dorin Mircea Popovici, Editura Universitatii Bucuresti, 391-394, ISSN 1844-8933 (with Barna L. Iantovics).
8. *Meetings with Solomon Marcus, L. Spandonide and G. Paun*, *Spandugino Publishing House*, 2010, 895-896.
9. *On the (Colored) Yang-Baxter Equation*, *BRAIN. Broad Research in Artificial Intelligence and Neuroscience*, ISSN 2067-3957, Volume 1, July 2010, 33 - 39 (with David Hobby and Barna Laszlo Iantovics).
10. *Inequalities and elements of sequences theory (in Romanian)*, *Mathematical Gazette, Series A*, No. 3 / 2009, 214-216 (with Petru Ivanescu).
11. *Knowledge-Based Mobile Agents*, *Proceedings of the International Conference "European Integration between Tradition and Modernity"*, 3-rd edition, 22-23 October 2009, Petru Maior University Press, Targu Mures, 2009, ISSN 1844-2048, 1061-1069 (with David Hobby and Barna Laszlo Iantovics).

12. *Entwined Bicomplexes*, IMAR preprint nr. 6 / 2009; *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, Tome 52(100), No. 2, 2009, 161-176 (with Calin Popescu).
13. *Coloured bialgebras and nonlinear equations*, *Proceedings of the Sixth Congress of Romanian Mathematicians*, Bucharest, 2007, Editura Academiei Publishing House, vol. 1, 65-70, 2009 (with Deepak Parashar).
14. *Some results on the Yang-Baxter equations and applications*, IMAR preprint nr. 11 / 2008; *Romanian Journal of Physics*, Volume 53, Number 9-10, 2008, 1177-1182 (with Bogdan P. Popovici).
15. *New constructions of Yang-Baxter systems*, *AMS Contemporary Mathematics* 442 (2007), 193-200 (with Deepak Parashar).
16. *On some remarkable limits of functions (in Romanian)*, *Mathematical Gazette, Series B*, No. 1 / 2007, 2-6.
17. *Spectral-parameter dependent Yang-Baxter operators and Yang-Baxter systems from algebra structures*, *Communications in Algebra*, vol. 34(8), 2713-2726, 2006 (with Deepak Parashar).
18. *New solutions for Yang-Baxter systems*, *Acta Universitatis Apulensis*, No. 11 / 2006, 189-195.
19. *Yang-Baxter systems and entwined structures*, *Communications in Algebra*, vol. 33(4), 1083-1093, 2005 (with Tomasz Brzezinski).
20. *Yang-Baxter operators derived from algebra structures and the Alexander polynomial of knots*, *Communications in Algebra*, vol. 33(7), 2375-2385, 2005 (with Gwenael Mas-suyeau).
21. *The duality between algebras and coalgebras*, *Ann. Univ. Ferrara - Sez. VII - Sc. Mat.*, vol. LI, 173-181, 2005 (with Samuel D. Schack).
22. *An extension for the Stone duality in the finite case*, *Bulletin of the Petroleum-Gas University from Ploiesti*, No. 1 / 2005, 39-41 (with David M. Clark).
23. *On The Set-Theoretical Yang-Baxter Equation*, *Acta Universitatis Apulensis*, No. 5 / 2003, 97-100.
24. *Some Problems On Combinational Logical Circuits*, *Acta Universitatis Apulensis*, No. 4 / 2002, 139-144 (with Ion M. Nichita).
25. *Non-linear Equation, Quantum Groups and Duality Theorems*, *Ph.D. Thesis, SUNY at Buffalo* (2001); VDM Verlag, 2009.
26. *Self-Inverse Yang-Baxter Operators from (Co)Algebra Structures*, *Journal of Algebra* 218, 738-759 (1999).
27. *Yang-Baxter Operators Arising from (Co)Algebra Structures*, *Communications in Algebra*, Vol. 27 (12), 5833-5845 (1999) (with Sorin Dascalescu).

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