

## Lista de publicații

Maria Anastasia Jivulescu

1. **M.A. Jivulescu**, C. Lancien, I. Nechita, Multipartite Entanglement Detection Via Projective Tensor Norms. *ANN. Henri Poincaré* (2022), <https://doi.org/10.1007/s00023-022-01187-9>
2. T. Heinosaari, **M.A. Jivulescu**, I. Nechita, *Random positive operator valued measures*, JOURNAL OF MATHEMATICAL PHYSICS , 61, 042202 (2020)
3. Sergey Filippov, Kamil Magadov, **M.A. Jivulescu** *Absolutely separating quantum maps and channels*, NEW J. Phys. 19, 083010, 2017
4. **M.A. Jivulescu**, I. Nechita, P. Gavruta, *On symmetric decompositions of positive operators*, J. PHYS. A: Math. Theor. 50 165303, 2017
5. **M.A. Jivulescu**, N. Lupa, I. Nechita *Thresholds for Reduction-Related Entanglement Criteria in Quantum Information Theory – QUANTUM INFORMATION and COMPUTATION*, Vol 15, Nr. 13/14, pag1165-1184, 2015
6. **M.A. Jivulescu**, N. Lupa, I. Nechita, D. Reeb *Positive reduction from spectra*, LINEAR ALGEBRA and its APPLICATIONS, Volume 469,, Pag. 276–304, [doi.10.1016/j.laa.2014.11.031](https://doi.org/10.1016/j.laa.2014.11.031), 2015
7. **M.A. Jivulescu**, N. Lupa, I. Nechita *On the reduction criterion for random quantum states*, JOURNAL OF MATHEMATICAL PHYSICS, Volume: 55, Issue: 11, Article Number: 112203-1-27, NOV 2014
8. **M.A. Jivulescu**, A. Messina *Exact treatment of operator difference equations with nonconstant and noncommutative coefficients*, JOURNAL OF ENGINEERING MATHEMATICS , Volume: 82 , Issue: 1, Pag. 149-160 ,Special Issue: SI , DOI: 10.1007/s10665-012-9602-9, oct 2013
9. T. Heinosaari, **M.A. Jivulescu**, D. Reeb, M.M. Wolf *Extending quantum operations* JOURNAL OF MATHEMATICAL PHYSICS ,Volume: 53 Issue: 1 Article Number: 102208 , oct 2012
10. **M. A. Jivulescu**, A. Napoli, A. Messina *General solution of a second order non-homogenous linear difference equation with noncommutative coefficients*, APPLIED MATHEMATICS AND INFORMATION SCIENCES, Volume 4, Issue 1, Pag. 1-14, 2010
11. Teiko Heinosaari, **M. A. Jivulescu**, Daniel Reitzner, and Mario Ziman *Approximating incompatible von Neumann measurements simultaneously*, PHYS. REV. A 82, 032328, 2010.
12. **M.A. Jivulescu**, A. Messina, A. Napoli, F. Petruccione *Exact treatment of linear difference equations with non-commutative coefficients* MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 30; 2147-2153, 2007

13. **M.A. Jivulescu**, A. Napoli, A. Messina *Elementary symmetric functions of two solvents of a quadratic matrix equation* *REPORTS on MATHEMATICAL PHYSICS*, **62**, 3, 369-387, 2008
14. E. Ferraro, H.-P. Breuer, A. Napoli, **M.A. Jivulescu**, A. Messina *Non-Markovian dynamics of a single electron spin coupled to a nuclear spin bath* *PHYSICAL REVIEW B*, **78**, 6, 064309 -1-8, 2008
15. R. Messina, **M. A. Jivulescu**, A. Messina, A. Napoli *Riccati equation-based generalization of Dawson's integral function* *MATHEMATICAL METHODS IN THE APPLIED SCIENCES*, **30**; 2055-2064, 2007
16. **M. A. Jivulescu**, E. Papp *On the dynamic localization conditions for dc-ac electric field proceeding beyond the nearest-neighbour description* *JOURNAL OF PHYSICS Condensed Matter* **18**, 6853-6857, 2006
17. **M.A. Jivulescu**, E. Ferraro, A. Napoli, A. Messina *Exact dynamics of XX central spin models* *PHYSICA SCRIPTA-Special Topics*, **T135**, 014040-1-4, 2009 2008
18. **M.A. Jivulescu**, E. Ferraro, A. Napoli, A. Messina *Dynamical behaviour of an XX central spin model through BETHE ANSATZ techniques* *REPORTS on MATHEMATICAL PHYSICS*, **64**, 1-2, 315-327, 2008
19. E. Ferraro, **M. A. Jivulescu**, A. Napoli, A. Messina *W- like states of N uncoupled spins 1/2*, *EUROPEAN JOURNAL OF PHYSICS -Special Topics*, **160**, 157-164, 2008
20. **M. Guccione**, **M.A. Jivulescu**, A. Messina, *Unitary decoupling treatment of a quadratic bimodal cavity quantum electrodynamics model* *PHYSICA SCRIPTA* Volume: T153 Article Number: 014032, MAR 2013
21. **M.A. Jivulescu**, R. Migliore, A. Messina *Electromagnetic control of dynamical localization conditions in 1D lattices with long-range intersite interactions* *INTERNATIONAL JOURNAL OF QUANTUM INFORMATION*, **7**, 149-157, 2009
22. R. I. Rusnac, **M.A. Jivulescu**, *Wireless Sensor Network Node Localization via Second Order Cone Programming*, Conference: 10th International Symposium on Electronics and Telecommunications (ISETC) Location: Timisoara, ROMANIA Date: NOV 15-16, 2012, 2012 10TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS, Pag. 191-194, 2012
23. **M.A. Jivulescu**, P. Găvruta, *Indices of sharpness for Parseval frames, quantum effects and observables*, *Buletinul Științific al Universității Politehnica din Timișoara*, Volum (74), 2, pp 17-29, 2015

**Phd Thesis:** *Operator-difference equations and their applications in quantum mechanics*?, Editura Politehnica, Timișoara, 2008 (200 pages) ISBN 978-973-625-783-4