

## ПЪЛЕН СПИСЪК НА НАУЧНИТЕ ТРУДОВЕ НА Д-Р ПЕТЪР РАШКОВ

1. **P. Rashkov**, I.P. Barrett, R.E. Beardmore, C. Bendtsen, I. Gudelj. Kinase inhibition leads to hormesis in a dual phosphorylation-dephosphorylation cycle, *under review*
2. I. Gudelj, M. Kinnersley, **P. Rashkov**, K. Schmidt, F. Rosenzweig, Stability of cross-feeding polymorphisms in microbial communities, *under review*
3. P. Rashkov (2016), Hormesis arising in a simple enzyme kinetic model, *Biomath Communications* **3**(1)  
doi:10.11145/cb.v3i1.611  
ISSN 2367-5233 (print), 2367-5241 (online)
4. P. Rashkov (2015), Remarks on pattern formation in a model for hair follicle spacing, *Discr. Cont. Dyn. Syst. B* **20** 1555-1572  
doi:10.3934/dcdsb.2015.20.1555  
ISSN 1553-524X (print), 1531-3492 (online) *IF 0.768, SJR 1.111, SNIP 0.957*
5. P. Rashkov (2014), Regular and discontinuous solutions in a reaction-diffusion model for hair follicle spacing, *Biomath* **3** 1411111  
doi:10.11145/j.biomath.2014.11.111  
ISSN 1314-7218 (online), 1314-684X (print)
6. P. Rashkov, B.A. Schmitt, D. Keilberg, K. Beck, L. Sogaard-Andersen, S. Dahlke (2014), A model for spatio-temporal dynamics in a regulatory network for cell polarity, *Math. Biosci.* **258** 189-200  
doi:10.1016/j.mbs.2014.10.005  
ISSN 0025-5564 *IF 1.303, SJR 0.672, SNIP 1.020*
7. P. Rashkov (2014), Pattern formation in a reaction-diffusion system with a singularity, *Biomath Communications* **1**(1)  
doi:10.11145/247  
ISSN 2367-5233 (print), 2367-5241 (online)
8. P. Rashkov (2013), Modelling protein oscillations in *Myxococcus xanthus*, *Biomath Communications*  
doi:10.11145/88  
ISSN 2367-5233 (print), 2367-5241 (online)

9. N. Grip, G.E. Pfander, **P. Rashkov** (2013), A time-frequency density criterion for operator identification, *Sampl. Theory Signal Image Process.* **12** 1-19<sup>1</sup>  
ISSN 1530-6429 SJR 0.179, SNIP 0.249
10. P. Rashkov, B.A. Schmitt, L. Sogaard-Andersen, P. Lenz, S. Dahlke (2013), A model for antagonistic protein dynamics, *Int. J. Biomath. Biostat.* **2** 75-85  
ISSN 0973-7340
11. G.E. Pfander, **P. Rashkov** (2013), Remarks on multivariate Gaussian Gabor frames, *Monatsh. Math.* **172** 179-187<sup>1</sup>  
doi:10.1007/s00605-013-0556-4  
ISSN 0026-9255 (print), 1436-5081 (online) IF 0.638, SJR 0.828, SNIP 0.935
12. P. Rashkov, B.A. Schmitt, L. Sogaard-Andersen, P. Lenz, S. Dahlke (2012), A model of oscillatory protein dynamics in bacteria, *Bull. Math. Biol.* **74** 2183-2203  
doi:10.1007/s11538-012-9752-y  
ISSN 0092-8240 (print), 1522-9602 (online) IF 2.023, SJR 0.876, SNIP 1.196
13. G.E. Pfander, **P. Rashkov**, Y. Wang (2012), A geometric construction of tight multivariate Gabor frames with compactly supported smooth windows, *J. Fourier Analysis Appl.* **18** 223-239<sup>1</sup>  
doi:10.1007/s00041-011-9198-x  
ISSN 1069-5869 (print), 1531-5851 (online) IF 1.079, SJR 1.094, SNIP 1.284
14. N. Grip, G.E. Pfander, **P. Rashkov** (2011), Density criteria in operator identification, In: *Proceedings 9th International Conference on Sampling Theory and Applications (SampTA)*, Singapore, 2011<sup>1</sup>
15. N. Grip, G.E. Pfander, **P. Rashkov** (2010), Identification of time-frequency localized operators. Technical Report No. 22, Jacobs University Bremen, 72 pages<sup>1</sup>  
[http://techreports.user.jacobs-university.de/files/22\\_tr\\_2.pdf](http://techreports.user.jacobs-university.de/files/22_tr_2.pdf)
16. G.E. Pfander, **P. Rashkov** (2010), Window design for multivariate Gabor frames on lattices, Technical Report No. 21, Jacobs University Bremen, 43 pages<sup>1</sup>  
[http://techreports.user.jacobs-university.de/files/21\\_tr\\_1.pdf](http://techreports.user.jacobs-university.de/files/21_tr_1.pdf)
17. P. Rashkov (2010), *Time-frequency localized functions and operators in Gabor analysis*, Ph.D. Thesis, Jacobs University Bremen  
<http://nbn-resolving.de/urn:nbn:de:101:1-2013052411339>

---

<sup>1</sup>Авторите са подредени по азбучен ред.

18. F. Krahmer, G.E. Pfander, **P. Rashkov** (2009), An open question on the existence of Gabor frames in general linear position, In: S. Dahlke, I. Daubechies, M. Elad, G. Kutyniok, G. Teschke (Eds.) *Structured Decompositions and Efficient Algorithms*, 7 pages, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, Germany, 2009<sup>1</sup>  
 ISSN 1862-4405  
<http://drops.dagstuhl.de/portals/index.php?semnr=08492>
19. L. Dimitrova, **P. Rashkov** (2009), A new version for Bulgarian MTE morphosyntactic specifications for some verbal forms, In: V. Shyrokov, L. Dimitrova (Eds.) *Organization and Development of Digital Lexical Resources*, pp. 30-37, Kiev, Ukraine, 2009  
 ISBN 978-966-507-252-2
20. F. Krahmer, G.E. Pfander, **P. Rashkov** (2009), Applications of the uncertainty principle for finite abelian groups to communications engineering, *Bulg. J. Phys.* **36**(S1) 54-59<sup>1</sup>  
 ISSN 1310-0157 (print)
21. F. Krahmer, G.E. Pfander, **P. Rashkov** (2008), Uncertainty in time-frequency representations on finite abelian groups and applications, *Appl. Comput. Harmon. Analysis* **25** 209-225<sup>1</sup>  
 doi:10.1016/j.acha.2007.09.008  
 ISSN 1063-5203 (print), 1096-603X (online) *IF 2.344, SJR 2.749, SNIP 2.32*
22. F. Krahmer, G.E. Pfander, **P. Rashkov** (2008), Support size conditions on time-frequency representations of functions on finite Abelian groups, *Proc. Appl. Math. Mech.* **8** 10825-10826<sup>1</sup>  
 doi:10.1002/pamm.200810825  
 ISSN 1617-7061 (online)
23. F. Krahmer, G.E. Pfander, **P. Rashkov** (2007), Support size conditions for time-frequency representations on finite Abelian groups, Technical Report No. 13, Jacobs University Bremen, 39 pages<sup>1</sup>  
[http://techreports.user.jacobs-university.de/files/13\\_SupportAbelian.pdf](http://techreports.user.jacobs-university.de/files/13_SupportAbelian.pdf)
24. P. Rashkov (2005), За елиптичните криви, *Математика Плюс* **2** 53-56  
 ISSN 0861-8321