

Списък на всички статии

на проф. дн Младен Светославов Савов за участие в конкурс за член-кореспондент по чл.3 ал.3
от „Правилник за избиране на академици (действителни членове) и член-кореспонденти (дописни членове) на БАН“

1. Savov, M., *Curve crossing for the reflected Lévy process at zero and infinity*, ELECTRONIC JOURNAL OF PROBABILITY, 2008, Volume: 13, Pages: 157–172, DOI: 10.1214/EJP.v13-483, Published: JAN 2008, eISSN: 1083-6489, IF (1.131 - 2008), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (36/92 Statistics and Probability, JCR-WoS), [hyperlink](#)
2. Savov, M. *Small time two-sided LIL behaviour for Levy processes at zero*, PROBABILITY THEORY AND RELATED FIELDS, 2009, Volume: 144, Pages: 79–98, DOI: 10.1007/s00440-008-0142-1, Published: MAR 2008, ISSN: 0178-8051, eISSN: 1432-2064, IF (1.373 - 2009), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (29/100 Statistics and Probability, JCR-WoS), [hyperlink](#)
3. Doney, R., Maller, R. and Savov, M., *Renewal theorems and stability for the reflected process*, STOCHASTIC PROCESSES AND THEIR APPLICATIONS, 2009, Volume: 119, Pages: 1270–1297, DOI: 10.1016/j.spa.2008.06. Published: APR 2009, ISSN: 0304-4149, IF (1.543 - 2009), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2(26/100 Statistics and Probability, JCR- WoS), [hyperlink](#)
4. Doney, R. and Savov, M., *The asymptotic behaviour of densities related to the supremum of a stable process*, ANNALS OF PROBABILITY, 2010, Volume: 38, Pages: 316–326, DOI: doi:10.1214/09-AOP479, Published: JAN 2010, ISSN: 0091-1798, eISSN: 2168-894X, IF (1.470 - 2010), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (28/110 Statistics and Probability, JCR- WoS), [hyperlink](#)
5. Doney, R. and Savov, M., *Right inverses of Lévy processes*, ANNALS OF PROBABILITY, 2010, Volume: 38, Pages: 1390–1400, DOI: 10.1214/09-AOP515, Published: JUL 2010, ISSN: 0091-1798, eISSN: 2168-894X, IF (1.470- 2010), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (28/110 Statistics and Probability, JCR-WoS), [hyperlink](#)
6. Doering, L. and Savov, M., *An application of renewal theorems to exponential moments of local times*, ELECTRONIC COMMUNICATIONS IN PROBABILITY, 2010, Volume: 38, Pages: 263–269, DOI: 10.1214/ECP.v15- 1558, Published: JUN 2010, eISSN: 1083-589X, IF (0.559 - 2010), Quartile: Q2 (Statistics and Probability, Scopus); Quartile Q4 (88/110 Statistics and Probability, JCR-WoS), [hyperlink](#)
7. Bertoin, J. and Savov, M., *Some applications of duality for Lévy processes in a half-line*, BULLETIN OF THE LONDON MATHEMATICAL SOCIETY, 2010, Volume: 43, Pages: 97–111, DOI: 10.1112/blms/bdq084, Published: OCT 2010, eISSN: 1469-2120, IF (0.63 - 2010), Quartile: Q1 (Geometry and Topology, Scopus); Quartile: Q2 (122/279 Mathematics, JCR-WoS), [hyperlink](#)
8. Savov, M., *Small time one-sided LIL behaviour for Lévy processes at zero*, JOURNAL OF THEORETICAL PROBABILITY, 2010, Volume: 23, Pages: 209–236, DOI: 10.1007/s10959-008-0202-6, Published: MAR 2010, ISSN: 0894-9840, eISSN: 1572-9230, IF (0.600 - 2010), Quartile: Q2 (Statistics and Probability, Scopus); Quartile: Q3 (81/110 Statistics and Probability), [hyperlink](#)
9. Savov, M. and Winkel, M., *Right inverses of Lévy processes: the excursion measure in the general case*, ELECTRONIC COMMUNICATIONS IN PROBABILITY, 2010, Volume: 38, Pages: 572–584, DOI: 10.1214/ECP.v15- 1590, Published: DEC 2010, eISSN: 1083-589X, IF (0.559 - 2010), Quartile: Q2 (Statistics and Probability, Scopus); Quartile Q4 (88/110 Statistics and Probability, JCR-WoS), [hyperlink](#)
10. Chan, T., Kyprianou A. and Savov, M., *Smoothness of scale functions for spectrally negative Lévy processes*, PROBABILITY THEORY AND RELATED FIELDS, 2011, Volume: 150, Pages: 691–708, DOI: 10.1007/s00440- 010-0289-4, Published: APR 2010, ISSN: 0178-8051, eISSN: 1432-2064, IF (1.870 - 2011), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q1 (25/116 Statistics and Probability, JCR-WoS), [hyperlink](#)
11. Doering, L. and Savov, M., *(Non) Differentiability and asymptotics for renewal densities of subordinators*, ELECTRONIC JOURNAL OF PROBABILITY, 2011, Volume: 16, Pages: 470–503, DOI: 10.1214/EJP.v16-860, Published: MAR 2011, eISSN: 1083-6489, IF (0.713 - 2011), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q3 (71/116 Statistics and Probability, JCR-WoS), [hyperlink](#)

12. Kuznetsov A., Pardo J.C. and Savov, M., *Distributional properties of exponential functionals of Lévy processes*, ELECTRONIC JOURNAL OF PROBABILITY, 2012, Volume: 17, Pages: 1–35, DOI: 10.1214/EJP.v17- 1755, Published: JAN 2012, eISSN: 1083-6489, IF (0.785 - 2012), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q3 (70/119 Statistics and Probability, JCR-WoS), [hyperlink](#)
13. Pardo, J.C., Patie, P. and Savov, M., *A Wiener-Hopf type of factorization for the exponential functional of Lévy processes*, JOURNAL OF THE LONDON MATHEMATICAL SOCIETY, 2012, Volume: 96, Pages: 930–956, DOI: 10.1112/jlms/jds028, Published: SEP 2012, ISSN: 0024-6107, eISSN: 1469-7750, IF (0.804 - 2012), Quartile: Q1 (Mathematics, Scopus); Quartile: Q1 (69/296 Mathematics, JCR-WoS), [hyperlink](#)
14. Patie, P. and Savov, M., *Extended factorizations of exponential functionals of Lévy processes*, ELECTRONIC JOURNAL OF PROBABILITY, 2012, Volume: 17, Pages: 1–22, DOI: 10.1214/EJP.v17-2057, Published: MAY 2012, eISSN: 1083-6489, IF (0.785 - 2012), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q3 (67/117 Statistics and Probability, JCR-WoS), [hyperlink](#)
15. Kolb, M., Savov, M. and Wübker, A., *(Non-) Ergodicity of a Degenerate Diffusion Modeling the Fiber Lay Down Process*, SIAM JOURNAL ON MATHEMATICAL ANALYSIS, 2013, Volume: 45, Pages: 1–13, DOI: 10.1137/120870724, Published: JAN 2013, ISSN: 0036-1410, eISSN: 1095-7154, IF (1.396 - 2013), Quartile: Q1 (Analysis, Scopus); Quartile: Q1 (44/251, JCR-WoS), [hyperlink](#)
16. Aurzada, F., Doering, L. and Savov, M., *Small time Chung-type LIL for Lévy processes*, BERNOULLI, 2013, Volume: 19, Pages: 115–136, DOI: 10.3150/11-BEJ395, Published: JAN 2013, ISSN: 1350-7265, IF (1.296 - 2013), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (34/119 Statistics and Probability, JCR-WoS), [hyperlink](#)
17. Patie, P. and Savov, M., *Exponential functional of Lévy processes: Generalized Weierstrass products and Wiener-Hopf factorization*, COMPTES RENDUS MATHEMATIQUE, 2013, Volume: 351, Pages: 393–396, DOI: 10.1016/j.crma.2013.04.023, Published: MAY 2013, ISSN: 1631-073X, IF (0.425 - 2013), Quartile: Q1 (Statistics and Probability, Scopus); Quartile Q3 (221/302 Mathematics, JCR-WoS), [hyperlink](#)
18. Kolb, M. and Savov, M., *Exponential ergodicity of killed Lévy processes in a finite interval*, ELECTRONIC COMMUNICATIONS IN PROBABILITY, 2014, Volume: 14, Pages: 1–9, DOI: 10.1214/ECP.v19-3006, Published: MAY 2014, eISSN: 1083-589X, IF (0.619 - 2014), Quartile: Q2 (Statistics and Probability, Scopus); Quartile: Q3 (89/122 Statistics and Probability, JCR-WoS), [hyperlink](#)
19. Aurzada, F., Kramm, T., and Savov, M., *First passage times of Lévy processes over a one-sided moving boundary*, MARKOV PROCESSES AND RELATED FIELDS, 2015, Volume: 21, Pages: 1024-2953, Published: MAR 2015, ISSN: 1024-2953, IF (0.484 - 2015), Quartile: Q2 (Statistics and Probability, Scopus); Quartile Q4 (100/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
20. Savov, M., *On the range of subordinators*, ELECTRONIC COMMUNICATIONS IN PROBABILITY, 2014, Volume: 19, Pages: 1–10, DOI: 10.1214/ECP.v19-3629, Published: DEC 2014, eISSN: 1083-589X, IF (0.619 - 2014), Quartile: Q2 (Statistics and Probability, Scopus); Quartile: Q3 (89/122 Statistics and Probability, JCR-WoS), [hyperlink](#)
21. Savov, M. and Wang, S., *Fluctuation limits of a locally regulated population and generalized Langevin equations*, INFINITE DIMENSIONAL ANALYSIS, QUANTUM PROBABILITY AND RELATED TOPICS, 2015, Volume: 18, Pages: 23, DOI: 10.1142/S0219025715500095, Published: JUN 2015, ISSN: 0219-0257, eISSN: 1793-6306, IF (0.682 - 2015), Quartile: Q2 (Applied Mathematics, Scopus); Quartile Q3 (78/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
22. Kolb, M. and Savov, M., *Transience and recurrence of a Brownian path with limited local time*, ANNALS OF PROBABILITY, 2016, Volume: 44, Pages: 4083–4132, DOI: 10.1214/15-AOP1069, Published: NOV 2016, ISSN: 0091-1798, eISSN: 2168-894X, IF (1.940- 2010), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q1 (16/110 Statistics and Probability, JCR-WoS), [hyperlink](#)
23. Kolb, M and Savov, M., *Conditional survival distributions of Brownian trajectories in a one dimensional Poissonian environment in the critical case*, ELECTRONIC JOURNAL OF PROBABILITY, 2017, Volume: 22, Pages: 1–22, DOI: 10.1214/17-EJP4468, Published: FEB 2017, eISSN: 1083-6489, IF (0.901 - 2017), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q3 (69/123 Statistics and Probability, JCR-WoS), [hyperlink](#)

24. Patie, P. and Savov, M., *Cauchy problem of the non-self-adjoint Gauss-Laguerre semigroups and uniform bounds of generalized Laguerre polynomials*, JOURNAL OF SPECTRAL THEORY, 2017, Volume: 7, Pages: 797– 846, DOI: 10.4171/JST/178, Published: SEP 2017, ISSN: 1664-039X, eISSN: 1664-0403, IF (0.844 - 2017), Quartile: Q1 (Geometry and Topology, Scopus); Quartile: Q2 (108/302 Mathematics, JCR-WoS), [hyperlink](#)
25. Patie, P. and Savov, M., *Bernstein-gamma functions and exponential functionals of Lévy processes*, ELECTRONIC JOURNAL OF PROBABILITY, 2018, Volume: 23, Pages: 1–101, DOI: 10.1214/18-EJP202, Published: JUL 2018, eISSN: 1083-6489, IF (0.994 - 2018), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q3 (66/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
26. Patie, P., Savov, M. and Zhao, Y., *Intertwining, Excursion Theory and Krein Theory of Strings for Non-self-adjoint Markov Semigroups*, ANNALS OF PROBABILITY, 2019, Volume: 47, Pages: 3231-3277, DOI: 10.1214/19- AOP1338, Published: NOV 2019, ISSN: 0091-1798, eISSN: 2168-894X, IF (2.085- 2018), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q1 (23/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
27. Loeffen, R., Patie, P. and Savov, M., *Extinction Time of Non-Markovian Self-Similar Processes, Persistence, Annihilation of Jumps and the Fréchet Distribution*, JOURNAL OF STATISTICAL PHYSICS, 2019, Volume: 175, Pages: 1022–1041, DOI: 10.1007/s10955-019-02279-3, Published: MAR 2019, ISSN: 0022-4715, eISSN: 1572-9613, IF (1.513 - 2018), Quartile: Q2 (Mathematical Physics, Scopus); Quartile: Q2 (23/55 Physical, Mathematics, JCR-WoS), [hyperlink](#)
28. Zaeviski, T.S., Kounchev, O. and Savov, M., *Two frameworks for pricing defaultable derivatives*, CHAOS, SOLITONS AND FRACTALS, 2019, Volume: 123, Pages: 309–319, DOI: 10.1016/j.chaos.2019.04.025, Published: APR 2019, ISSN: 0960-0779, IF (3.064 - 2018), Quartile: Q1 (Mathematics, Scopus); Quartile: Q1 (3/55 Physics, Mathematical, JCR-WoS), [hyperlink](#)
29. Mutafchiev, L. and Savov, M., *On the Maximal Multiplicity of Block Sizes in a Random Set Partition*, RANDOM STRUCTURES AND ALGORITHMS, 2020, Volume: 56, Pages: 867-891, DOI: 10.1002/rsa.20891, Published: MAY 2020, eISSN: 1098-2418, IF (1.008 - 2018), Quartile: Q1 (Mathematics, Scopus); Quartile: Q2 (90/214 Mathematics, JCR-WoS), [hyperlink](#)
30. Dimov, I. and Savov, M., *Probabilistic analysis of the single particle Wigner Monte-Carlo method*, MATHEMATICS AND COMPUTERS IN SIMULATION, 2020, Volume: 173, Pages: 32–50, DOI: 10.1016/j.matcom.2020.01.008, Published: JAN 2020, ISSN: 0378-4754, IF (1.409 - 2018), Quartile: Q1 (Computer Science, Scopus); Quartile: Q2 (87/254 Mathematics, Applied, JCR- WoS), [hyperlink](#)
31. Savov, M. and Toaldo, B., *Semi-Markov processes, integro-differential equations and anomalous diffusion- aggregation*, ANNALES DE L'INSTITUT HENRI POINCARÉ, PROBABILITES ET STATISTIQUES, 2020, Volume: 56, Issue: 4, Pages: 2640-2671, DOI: 10.1214/20-AIHP1053, Published: NOV 2020, ISSN: 0246- 0203, eISSN: 1778-7017, IF (1.25 - 2019), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (56/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
32. Kolb, M and Savov, M., *A characterization of the finiteness of perpetual integrals of Lévy processes*, BERNOULLI, 2020, Volume: 26, Pages: 1453–1472, DOI: 10.3150/19-BEJ1167, Published: JAN 2020, ISSN: 1350-7265, IF (1.39 - 2018), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (43/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
33. Barker, A. and Savov, M. *Bivariate Bernstein-gamma functions and moments of exponential functionals of subordinators*, STOCHASTIC PROCESSES AND THEIR APPLICATIONS, 2021, Volume: 131, Pages: 454-497, DOI: <https://doi.org/10.1016/j.spa.2020.09.017>, Published: JAN 2021, ISSN: 0304-4149, IF (1.46 - 2019), Quartile: Q1 (Statistics and Probability, Scopus); Quartile: Q2 (49/123 Statistics and Probability, JCR-WoS), [hyperlink](#)
34. Patie, P. and Savov, M., *Spectral expansions for generalized Laguerre semigroups*, MEMOIRS OF THE AMERICAN MATHEMATICAL SOCIETY, 2020+, Volume: Pages: 183 pages, IF (2.19 - 2019), Quartile: Q1 (Mathematics, Scopus); Quartile: Q1 (Mathematics, JCR-WoS), accepted¹

¹ Виж Приложение по-долу, което съдържа официалната комуникация със списанието.

ПРИЛОЖЕНИЕ
Писма за приемане на статия номер 34

Копирани са официални писма от електронната поща на кандидата и са приложени тук.

Dear Prof. Patie,

I am pleased to inform you that your article

Spectral expansions of non-self-adjoint generalized Laguerre semigroups
by Pierre Patie and Mladen Savov

has been accepted by the editorial board for publication in
the *Memoirs of the AMS*.

Sincerely,

Alejandro Adem
Editor of *Memoirs of the American Mathematical Society*

Dear Dr. Patie,

My name is Michael Haggett and I am the production editor responsible for *Memoirs*. We have received your files and they have been processed. As you might know, *Memoirs* has a significant backlog of about 2 and a half years. Your memoir is about 29th in my queue, which places it in line for publication in about a year with the September 2021 volume. This might change slightly depending on the page counts and volume, but we typically publish 36-40 numbers per year, so I'm confident of seeing your memoir in publication in the second-half of 2021.

If you have any questions regarding either the status or the production process, please let me know.

Regards,

Michael