Научни приноси на гл. ас. д-р Александър Петков

**Статия в научно списание**

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|---|---|---|
| 1 | *Alexander Petkov*, **On Some Applications of Entropy Formula for the Heat Equation on a Quaternionic Contact Manifold**, Comptes rendus de l'Académie bulgare des Sciences, vol:73, issue:2, 2020, pages:179-189, ISSN (print):1310–1331, ISSN (online):2367–5535, doi:10.7546/CRABS.2020.02.05, Ref, Web of Science, IF (0.343 - 2019), Web of Science Quartile: Q4 (2020), SCOPUS, SJR (0.218 - 2019), SCOPUS Quartile: Q2 (2020) | 2020 |
| 2 | *Alexander Petkov*, **An Entropy Formula for the Heat Equation on a Quaternionic Contact Manifold**, Comptes rendus de l'Académie bulgare des Sciences, vol:72, issue:10, 2019, pages:1301-1312, ISSN (print):1310–1331, ISSN (online):2367–5535, doi:10.7546/CRABS.2019.10.01, Ref, Web of Science, IF (0.343 - 2019), Web of Science Quartile: Q4 (2019), SCOPUS, SJR (0.218 - 2019), SCOPUS Quartile: Q2 (2019) | 2019 |
| 3 | *Stefan Ivanov, Alexander Petkov*, **The qc Yamabe problem on non-spherical quaternionic contact manifolds**, Journal de Mathématiques Pures et Appliquées, vol:118, 2018, pages:44-81, ISSN (print):0021-7824, ISSN (online):1776-3371, doi:https://doi.org/10.1016/j.matpur.2018.06.011, Ref, Web of Science, IF (1.961 - 2018), Web of Science Quartile: Q1 (18/314), SCOPUS, SJR (3.025 - 2018), SCOPUS Quartile: Q1 (2018) | 2018 |
| 4 | *Stefan Ivanov, Alexander Petkov, Dimiter Vassilev*, **The Obata sphere theorems on a quaternionic contact manifold of dimension bigger than seven**, Journal of Spectral Theory, vol:7, issue:4, 2017, pages:1119-1170, ISSN (print):1664-039X, ISSN (online):1664-0403, doi:DOI: 10.4171/JST/187, Ref, Web of Science, IF (0.844 - 2017), Web of Science Quartile: Q2 (108/310), SCOPUS, SJR (1.481 - 2017), SCOPUS Quartile: Q2 (108/310), International | 2017 |
| 5 | *Stefan Ivanov, Alexander Petkov, Dimiter Vassilev*, **The sharp lower bound of the first eigenvalue of the sub-Laplacian on a quaternionic contact manifold**, Journal of Geometric Analysis, vol:24, issue:2, 2014, pages:756-778, ISSN (print):1050-6926, ISSN (online):1559-002X, doi:https://doi.org/10.1007/s12220-012-9354-9, Ref, Web of Science, IF (0.971 - 2014), Web of Science Quartile: Q1 (59/312), SCOPUS, SJR (1.294 - 2014), SCOPUS Quartile: Q1 (2014), International | 2014 |

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| 6 | *Alexander Petkov*, **A Lichnerowicz-type result on a seven-dimensional quaternionic contact manifold** , Ann. Sofia Univ., Fac. Math. and Inf. , vol:101, 2013, pages:193-213, ISSN (online): 0205-0808, Ref | 2013 |
| 7 | *Stefan Ivanov, Alexander Petkov, Dimiter Vassilev*, **The sharp lower bound of the first eigenvalue of the sub-Laplacian on a quaternionic contact manifold in dimension seven**, Nonlinear Analysis: Theory, Methods & Applications, vol:93, 2013, pages:51-61, ISSN (online):0362-546X, doi:https://doi.org/10.1016/j.na.2013.07.011, Ref, Web of Science, IF (1.612 - 2013), Web of Science Quartile: Q1 (12/302), SCOPUS, SJR (1.588 - 2013), SCOPUS Quartile: Q1 (2013), International | 2013 |
| 8 | *Stefan Ivanov, Alexander Petkov*, **HKT manifolds with holonomy SL(n,H)**, International Mathematics Research Notices, vol:2012, issue:16, 2012, pages:3779-3799, ISSN (print):1073-7928, ISSN (online):1687-0247, doi:https://doi.org/10.1093/imrn/rnr160, Ref, Web of Science, IF (1.116 - 2012), Web of Science Quartile: Q1 (29/296), SCOPUS, SJR (1.854 - 2012), SCOPUS Quartile: Q1 (29/296), PhD | 2012 |

**Участие в конференция**

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| 1 | Секционен доклад, *Александър Петков*, **Center manifold theory for the Yang-Mills flow** | 2019 |
| 2 | Секционен доклад, *Александър Петков*, **The qc Yamabe problem on non-spherical quaternionic contact manifolds** | 2019 |
| 3 | Секционен доклад, *Александър Петков*, **Теория на централните многообразия за потока на Yang-Mills** | 2018 |
| 4 | Секционен доклад, *Александър Петков*, **The qc Yamabe problem on non-spherical quaternionic contact manifolds** | 2018 |
| 5 | Секционен доклад, *Александър Петков*, **The qc Yamabe problem on non-spherical quaternionic contact manifolds** | 2018 |
| 6 | Секционен доклад, *Александър Петков*, **The qc Yamabe problem on non-spherical quaternionic contact manifolds** | 2018 |
| 7 | Секционен доклад, *Александър Петков*, **Center manifold theory for the Yang-Mills and the Yang-Mills-Higgs flows** | 2018 |
| 8 | Секционен доклад, *Александър Петков*, **Center manifold theory for the Yang-Mills-Higgs flow** | 2017 |

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| 9 | Секционен доклад, *Александър Петков*, **The Yamabe problem on non-spherical quaternionic contact manifolds** | 2017 |
| 10 | Секционен доклад, *Александър Петков*, **Проблемът на Ямабе върху несферични кватернионно-контактни многообразия** | 2017 |
| 11 | Секционен доклад, *Александър Петков*, **The qc Yamabe problem on non-spherical quaternionic contact manifolds** | 2017 |
| 12 | Секционен доклад, *Александър Петков*, **The Lichnerowicz and Obata type results in the quaternionic contact geometry** | 2016 |
| 13 | Секционен доклад, *Александър Петков*, **Върху една формула за ентропията от тип на Перелман в кватернионно-контактната геометрия** | 2016 |
| 14 | Секционен доклад, *Александър Петков*, **Теореми от тип на Лихнерович и Обата върху кватернионно-контактни многообразия** | 2016 |
| 15 | Секционен доклад, *Александър Петков*, **The Lichnerowicz and Obata type results in the quaternionic contact geometry** | 2015 |
| 16 | Секционен доклад, *Александър Петков*, **The quaternionic contact heat equation and some of its applications** | 2015 |
| 17 | Секционен доклад, *Александър Петков*, **The quaternionic contact heat equation and some its applications** | 2015 |