

PUBLIKACJE PRACOWNIKÓW WYDZIAŁU MATEMATYKI I INFORMATYKI W ROKU 2019
w dyscyplinie MATEMATYKA

- Romaszko J., Skutecki R., **Bocheński M.**, Cymes I., Dragańska E., **Jastrzębski P.**, **Morocka-Tralle I.**, Jalali R., Jeznach-Steinhagen A., Glińska-Lewczuk K., Applicability of the universal thermal climate index for predicting the outbreaks of respiratory tract infections: a mathematical modeling approach, *International Journal of Biometeorology* 2019 63(9), 1231-1241. DOI: 10.1007/s00484-019-01740-y
- **Bocheński M.**, **Jastrzębski P.**, **Tralle A.**, Non-existence of standard compact Clifford-Klein forms of homogeneous spaces of exceptional Lie groups, *MATHEMATICS OF COMPUTATION* 2019, DOI: 10.1090/mcom/3493
- **Bocheński M.**, **Tralle A.**, On the Hirzebruch-Kobayashi-Ono proportionality principle and the non-existence of compact solvable Clifford-Klein forms of certain homogeneous spaces, *Forum Mathematicum* 2019 32(2), DOI: 10.1515/forum-2017-0144
- **Bocheński M.**, **Jastrzębski P.**, **Szczepkowska A.**, **Tralle A.**, **Woike A.**, Semisimple subalgebras in simple Lie algebras and a computational approach to the compact Clifford-Klein forms problem, *Experimental Mathematics* 2019, DOI: 10.1080/10586458.2018.1492475
- Choiński M., **Bodzioch M.**, Foryś U., Simple criss-cross model of epidemic for heterogeneous populations, *Communications in Nonlinear Science and Numerical Simulation* 2019, 79, 104920, DOI: 10.1016/j.cnsns.2019.104920
- **Bodzioch M.**, Choiński M., Simple discrete SIS criss-cross model of tuberculosis in heterogeneous population of homeless and non-homeless people, *Mathematica Applicanda* 2019, 47 (1), 103-115, DOI: 10.14708/ma.v47i1.6496
- Bajger P., **Bodzioch M.**, Foryś U., Singularity of controls in a simple model of acquired chemotherapy resistance, *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*, 2019, 24(5), 2039-2052, DOI: 10.3934/dcdsb.2019083
- **Bodzioch M.**, Choiński M., Foryś U., SIS criss-cross model of tuberculosis in heterogeneous population, *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B* 2019, 24(5), 2169-2188, DOI: 10.3934/dcdsb.2019089
- **Borsuk M.**, Existence of bounded weak solutions of the Robin problem for a quasi-linear elliptic equation with $p(x)$ -Laplacian, *Electronic Journal of Qualitative Theory of Differential Equations* 2019(16), 1-11, DOI: 10.14232/ejqtde.2019.1.16
- **Borsuk M.**, Transmission robin problem for singular $p(X)$ -Laplacian equation in a cone, *Electronic Journal of Qualitative Theory of Differential Equations* 2019, 93, 1-17, DOI: 10.14232/ejqtde.2019.1.93
- **Chyzykhov I.**, Beregova G., On asymptotic behavior of fractional Cauchy transform, *Analysis and Mathematical Physics* 2019 (9), 809–820, DOI: 10.1007/s13324-019-00317-7
- **Golasiński M.**, de Melo T., Generalized Gottlieb and Whitehead center groups of space forms, *Homology, Homotopy and Applications*, 2019 21(1), 323–340, DOI: 10.4310/HHA.2019.v21.n1.a15
- **Golasiński M.**, Exponents of $[\Omega^{Sr+1}, \Omega Y]$, (w:) *Algebraic Topology and Related Topics* Editors: Singh Mahender, Song Yongjin, Wu Jie, 2019, Birkhäuser Basel, pp. 313, DOI: 10.1007/978-981-13-5742-8
- **Kolev M.**, Mathematical analysis of an autoimmune diseases model: Kinetic approach, *Mathematics* 2019, 7(11), 1024, DOI: 10.3390/math7111024

- Jaworska-Pastuszak A., **Kwiecień M.**, Skowroński A., Selfinjective algebras having a generalized standard family of quasi-tubes maximally saturated by simple and projective modules, *Journal of Algebra* 2019, 520, 367-399, DOI: 10.1016/j.jalgebra.2018.10.034
- **Lecko A.**, Sim Y. J., Coefficient Problems in the Subclasses of Close-to-Star Functions, *Results in Mathematics* 2019, 74(3), 104, DOI: 10.1007/s00025-019-1030-y
- Cho N. E., **Lecko A.**, **Kowalczyk B.**, Sharp bounds of some coefficient functionals over the class of functions convex in the direction of the imaginary axis, *Bulletin of the Australian Mathematical Society* 2019, 100(1), 86-96, DOI: 10.1017/S0004972718001429
- Kwon O. S., **Lecko A.**, Sim Y. J., The bound of the hankel determinant of the third kind for starlike functions, *Bulletin of the Malaysian Mathematical Sciences Society* 2019, 42, 767-780, DOI: 10.1007/s40840-018-0683-0
- Kwon O. S., **Lecko A.**, Sim Y. J., **Śmiarowska B.**, The Sharp Bound of the Fifth Coefficient of Strongly Starlike Functions with Real Coefficients, *Bulletin of the Malaysian Mathematical Sciences Society* 2019, 42, 1719-1735, DOI: 10.1007/s40840-018-0688-8
- **Lecko A.**, Sim Y. J., **Śmiarowska B.**, The Sharp Bound of the Hankel Determinant of the Third Kind for Starlike Functions of Order $1/2$, *Complex Analysis and Operator Theory* 2019, 13, 2231-2238, DOI: 10.1007/s11785-018-0819-0
- **Matraś A.**, **Siemaszko A.**, The Distant Graph of the Ring of Integers and Its Representations in the Modular Group, *Result in Mathematics* 2019, 74, 82, DOI: 10.1007/s00025-019-1006-y
- **Matychyn I.**, Analytical Solution of Linear Fractional Systems with Variable Coefficients Involving Riemann–Liouville and Caputo Derivatives, *Symmetry* 2019, 11 (11), 1366, DOI: 10.3390/sym11111366
- **Matychyn I.**, Onyshchenko V., Optimal control of linear systems of arbitrary fractional order, *Fractional Calculus and Applied Analysis* 2019, 22(1), 170-179, DOI: 10.1515/fca-2019-0011
- Grygoryan A., Jimenez R., **Muranov Y.**, Homology of path complexes and hypergraphs, *Topology and its applications* 2019 (267), 106877, DOI: 10.1016/j.topol.2019.106877
- Ławrynowicz J., Suzuki O., **Niemczynowicz A.**, Nowak-Kępczyk M., Fractals and Chaos Related to Ising-Onsager-Zhang Lattices. Quaternary Approach vs. Ternary Approach, *Advances in Applied Clifford Algebras* 2019, 29, 45, DOI: 10.1007/s00006-019-0957-0
- Lompert K., **Panasjuk A.**, Invariant Nijenhuis Tensors and Integrable Geodesic Flows, *SIGMA*, 2019, Volume 15, 056, DOI: 10.3842/SIGMA.2019.056
- **Panasjuk A.**, Kronecker webs, Nijenhuis operators, and nonlinear PDEs, *Banach Center Publications* 117 (2019), 177-210, DOI: 10.4064/bc117-6
- **Pankov M.**, Commutativity preserving transformations on conjugacy classes of finite rank self-adjoint operators, *Linear Algebra and its Applications* 2019, 582, 430-439, DOI: 10.1016/j.laa.2019.08.016
- **Pankov M.**, Tyc A., On two types of Z-monodromy in triangulations of surfaces, *Discrete Mathematics* 2019342(9), 2549-2558, DOI: 10.1016/j.disc.2019.05.030
- **Pankov M.**, Wigner's type theorem in terms of linear operators which send projections of a fixed rank to projections of other fixed rank, *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS* 2019, 474(2), 1238-1249, DOI: 10.1016/j.jmaa.2019.02.014
- **Morocka-Tralle I.**, **Tralle A.**, On formality of homogeneous Sasakian manifolds, *Complex Manifolds* 2019, 6 (1), 160-169, DOI: 10.1515/coma-2019-0009
- **Tralle A.**, On formality of some homogeneous spaces, *Symmetry* 2019, 11 (8), 1011, DOI: 10.3390/sym11081011