

Report on research work for 2019
Department of Pure Mathematics

Research articles

Publication: W/S/I/-

S(cited in SCOPUS), W(cited in Web of Science), I (journals with impact-factor)

N	Department	Authors	Title	Journal	Vol., pages	S/I /W
1	2	3	4	5	6	7
Articles						
1	PM	Il'inskii A., Ostrovska S.	On Lin's Condition for Products of Random Variables	Journal of Mathematical Physics, Analysis, Geometry	15, 1, c. 79–85	W, S
2	PM	Gefter S.L., Piven A.L.	Implicit linear nonhomogeneous difference equation in Banach and locally convex spaces	-/-	15, 3, c. 336 – 353	W, S
3	PM	Chueshov I., Fastovska T., Ryzhkova I.	Quasi-stability Method in Study of Asymptotic Behavior of Dynamical Systems	-/-	15, 4, c. 448-501	W, S
4	PM	Vasylchenkova A., Prilepsky J.E., Shepelsky D., Chattopadhyay A.	Direct nonlinear Fourier transform algorithms for the computation of solitonic spectra in focusing nonlinear Schrodinger equation	Communications in Nonlinear Science and Numerical Simulation	68, c. 347-371	S
5	PM	Rybalko Y., Shepelsky D.	Long-time asymptotics for the integrable nonlocal nonlinear Schrödinger equation	Journal of Mathematical Physics	60, 3, doi: 10.1063/1.5036705	S
6	PM	de Monvel A. B., Lenells J., Shepelsky D.	Long-time asymptotics for the Degasperis-Procesi equation on the half-line	Annales de l'Institut Fourier	69, 1, p. 171-230	S
7	PM	Favorov S.Yu.	Large Fourier quasicrystals and Wiener's Theorem	Journal of Fourier Analysis and Applications	25, 2, c. 377-392	S
8	PM	Dantas S., Kadets V., Sun Kwang Kim, Han Ju Lee, Martín M.	On the pointwise Bishop–Phelps–Bollobás property for operators	Canadian Journal of Mathematics	71, 6, c. 1421-1443	S
9	PM	Dantas S., Kadets V., Sun Kwang Kim,	There is no operatorwise version of the Bishop–Phelps–Bollobás property	Linear and Multilinear Algebra	doi/abs/10.1080/03	-

		Han Ju Lee, Martín M.			08108 7.2018 .15603 88	
10	PM	Yampolsky A.	Catacaustics of a Hypersurface in the Euclidean n -Space	Mediterranean Journal of Mathematics	16, 4	S, W
11	PM	Nguyen T.H., Vishnyakova A.	On a necessary condition for an entire function with the increasing second quotients of Taylor coefficients to belong to the Laguerre-Pólya class	Journal of Mathematical Analysis and Applications	480, 2, doi.org/10.1016/j.jmaa.2019.12.3433	S, W
12	PM	Karolinsky E., Pianzola A., Stolin, A.	Classification of Quantum Groups via Galois Cohomology	Communications in Mathematical Physics	doi.org/10.1007/s00220-019-03597-z	S
13	PM	Gefter S. L.	Entire Differential Operators of Infinite Order in the Space of Formal Laurent Series and in the Ring of Power Series with Integer Coefficients	Journal of Mathematical Sciences	239, 3, c. 282–291	S
14	PM	Angosto C., Kadets V., Zavarzina O.	Non-expansive bijections, uniformities and polyhedral faces	Journal of Mathematical Analysis and Applications	471, (1-2), c. 38-52	W, S
15	PM	Gefter S., Piven A.	Initial problem for a nonhomogeneous linear differential-difference equation in a Banach space for a class of exponential type entire functions	European Journal of Mathematics	doi:10.1007/s40879-019-00314-x	-
16	PM	Gorkavyy V. Fesenko I.	On the model flexibility of Siamese dipyrramids	Journal of Geometry	110, 1 (7), c. 1-18	S

Conference proceedings

Publication: S/I/W-

S(cited in SCOPUS), W(cited in Web of Science), I (journals with impact-factor)

N з/п	Department	Authors:	Title	Conference	Pages	S/I/W
1	2	3	4	5	6	
Proceedings of international conferences in Ukraine						
1	PM	Шугайло О. О.	Застосування сучасних технологій в навчальному процесі	Всеукраїнська конференція	138-139	-

				«Проблеми викладання геометрії у закладах освіти: теорія, методика, практика». Квітень 8 – 10, 2019, Харків. Тези доповідей.		
2	PM	Favorov S.	Distributions with discrete support, quasicrystals, and almost periodicity	International scientific conference "Algebraic and geometric methods of analysis". Book of abstract. May 28 – June 3, Odessa (Ukraine)	20	-
3	PM	Yampolsky A.	Projective classification of points of a submanifold F^3 in E^6	International conference "Geometry, Differential Equations and Analysis", June 17-21, 2019, Kharkiv. Book of Abstracts	36-37	-
4	PM	Gordevskyy V. D., Hukalov O. O.	Some approximate solutions of the Bryan-Pidduck equation	-//-	43-44	-
5	PM	Gefter S. L., Piven A. L.	One-point initial problem for a nonhomogeneous linear differential-difference equation in a Banach space	-//-	42-43	-
6	PM	Фаворов С.Ю.	Про умову типу Бляшке для субгармонічних функцій з декількома множинами особливостей на межі	Всеукраїнська наукова конференція "Сучасні проблеми теорії ймовірностей та математичного аналізу", Ворохта (Івано-	21	-

				Франковська область) 25.02.19 - 01.03.19		
7	PM	Nguyen T.H., Vishnyakova A. M.	On the conditions for the entire functions with monotonic second quotients of coefficients to belong to the Laguerre-Polya class	-//-	32	-
8	PM	Favorov S.	On a Blaschke-type condition for subharmonic functions with two sets of singularities on the boundary “.	International conference “Banach Spaces and their Applications”, Lviv (Ukraine), 26 - 29.06.2019	125	-
9	PM	Zavarzina O.	Linear expand-contract plasticity of ellipsoids in separable Hilbert spaces	-//-	127–129	-
10	PM	Nguyen T.H., Vishnyakova A.	On the Conditions for Some Entire Functions of Order Zero to Belong to the Laguerre-Polya	-//-	130	-
11	PM	Kadets V.	Slicely countably determined sets	-//-	53	
12	PM	Favorov S.	Distribution of values of holomorphic mappings to a Banach space and some applications.	International Conference "Infinite-Dimensional Analysis and Topology", Ivano-Frankivsk, 16-20 October, 2019	20	-
13	PM	Kadets V.	Spaces with «few» norm attaining functionals and no proximal subspaces of codimension 2	-//-	27-28	-
14	PM	Kadets V., Zavarzina O.	Some results on GL-spaces	-//-	28-29	-
15	PM	Nguyen T.H., Vishnyakova A.	On the conditions for special entire functions relative to the partial theta-function and the Euler function to belong to the Laguerre-Polya	-//-	36	
16	PM	Zavarzina O.	Non-expansive bijections between unit balls of Banach spaces and related problems	XIV Summer School "Analysis, Topology, Algebra and Applications", Pidzakharyc	37–38	-

				hi village, Chernivtsi region, August 10 - 20, 2019		
17	PM	Nguyen T.H., Vishnyakova A.	On the Conditions for Some Entire Functions to Have Only Real Zeros	-//-	32	-
18	PM	Gefter S., Martsenyuk V, Piven' A.	Integer solutions of implicit linear difference equations of the second order	The XII Internationa l Algebraic Conference in Ukraine dedicated to the 215th anniversary of V. Bunyako vsky, July 02 -06, 2019, Vinnytsia	73-74	-

Proceedings of international conferences abroad						
19	PM	Karolinsky Eugene	Belavin-Drinfeld cohomology and classification of quantum groups	Quantum groups, quantum symmetric spaces and operator algebras, Kristineberg, Sweden 2-8 June 2019	3	
20	PM	Favorov S.	On a Blaschke-type condition for subharmonic functions with a set of singularities on the boundary	"Contempor ary aspects of analysis II". Protaras (Cyprus) 06.05.19 - 10.05.19	9	
21	PM	Kadets V.	Measurable selectors of multifunctions in non-separable spaces	The 14th ILJU School of Mathematics "Banach Spaces and Related Topics" January 6 – 12, 2019, Seoul, Republic of Korea	5	
22	PM	Fastovska T., Krivoshein A.	Modeling, analysis, approximation theory toward applications in tomography and inverse problems	Volkswagen Stiftung International symposium, Radebeul,	15	

				Germany, May 13-15, 2019		
23	PM	Favorov S.	Quasicrystals Fourier and tempered distributions with discrete support or spectrum	First Analysis Mathematica International Conference” Budapest 12.08.19-17.08.19	15	
24	PM	Fastovska T.	Long-time behaviour of transmission problems of elasticity	Proceedings of International conference "Infinite dimensional dynamical systems and attractors", Lanzhou, China, June 30-July 6, 2019	6	
25	PM	Ryzhkova-Gerasymova I.	Full von Karman plate without rotational inertia + fluid: strong solutions and their asymptotic behaviour	-//-	12	
26	PM	Fastovska T.	Asymptotic behaviour of Bresse type transmission problems,	International workshop "Modeling, interpolation and approximation for waves and signals", Luebeck, Germany, August 19-23, 2019	10	
27	PM	Ryzhkova-Gerasymova I.	Attractors for strong solutions to fluid-structure interaction models,	-//-	14	

Doctor of Sciences (Doctor Nauk) thesis defences

N з/п	Name	Title	Code	Council	Date
1	2	3	4	5	6
1	Vishnyakova A.	Polynomials with restrictions on the location of roots and the limiting classes of entire functions	01.01.01 – mathematical analysis	Д 64.175.01	30.05.2019
2	Rezounenko A.	Qualitative properties of dynamical systems generated by nonlinear delay partial differential equations	01.01.03 – mathematical physics	Д 64.175.01	11.12.2019

Conferences organized
(i - International, u - Ukraine)

N	i/u	School	Title	Dates
1		2	3	4
1	i	SMCS	International conference “Geometry, Differential Equations and Analysis” dedicated to the 100th Anniversary of O.V. Pogorelov	17.06.19 – 21.06.19