

## C O N T E N T S

Anatolij PRYKARPATSKYJ and Anatolij PLICHKO	
Mykola Bogolyubov – forerunner of contemporary mathematical physics and quantum mathematics .....	5
Stepan LINCHUK	
On the scientific inheritance of professor	
Mykola Ivanovich Nahnybida .....	14
Violetta BALAN	
Semi-normalized sequences of independent two-valued random variables with zero mean in the $L_p$ space with $p \geq 1$ .....	35
Andriy BANDURA	
On boundedness of the $L$ -index in direction for entire functions with plane zeros .....	44
Leonid BEDRATYUK	
Analogue of the Sylvester-Cayley formula for invariants of the ternary form .....	50
Halyna VOLOSHYN, Volodymyr MASLYUCHENKO	
The generalization of one Bernstein's theorem .....	62
Yaroslav GRUSHKA	
The spaces of operators with bounded projector trace .....	73
Zhanna DOVGEY, Vitaliy SUSHCHANSKY	
Structure of the unittriangle automorphism group of the ring of two polynomials variable over the field of zero characteristic ....	87
Oksana BODNAR, Mykola ZABOLOTSKY	
Regular growth of Fourier coefficients of the logarithm of entire functions of order zero .....	100
Taras ZVOZDETSKYI	
Similarity of some generalized differentiation operators of the first order in the spaces of analytic functions .....	110
Volodymyr KYRYLYCH	

Sufficient conditions for global continuous solvability of the free boundary problem for degenerate quasilinear hyperbolic system .....	123
Stepan KICHURA, Zhanneta TSAPOVS'KA	
Classical solvability of boundary problem for parabolic equation with discontinuous coefficients .....	140
Oleksandr MASLYUCHENKO	
The construction of $\omega$ -primitives: strongly attainable spaces .....	155
Ivan MATSAK, Anatolij PLICHKO	
On the law of large numbers in banach lattice.....	179
Vasyl' NESTERENKO	
Joint properties of functions which monotony with respect to the first variable .....	195
Olga NIKITINA	
The introduction of the hybrid integral Bessel-Euler-Fourier transmutation on the polar axis .....	202
Anatolij PLICHKO	
On orthogonal subspaces in densely embedded Hilbert spaces ....	218
Oleksandr SAVCHENKO	
Hyperspace functor and extension of fuzzy metrics .....	221
Mykhaylo SUMARYUK	
Free group that generated by two polinomials.....	230
Galyna TORGAN	
The initial boundary value problem for a nonlinear parabolic equation of the fourth order .....	236
Petro FILEVYCH	
On the asymptotic equality between the derivatives of the logarithms of the maximum modulus and the maximal term of an entire function .....	252
Oksana CHMYR	

The pointed power specialities of the solution of Volterra nonlinear integral equation.....	261
Stepan SHAKHNO, Roman YAKYMCHUK About two-step modification of Gauss-Newton method under the generalized Lipschitz conditions for nonlinear least squares problems .....	277
Ufuk TANERI, Myroslava I. VOVK, Anatoliy K. PRYKARPATSKY The algebraic structure of a linear Focker-Planck type kinetic dynamical system.....	287
Andriy ZAGORODNYUK, Volodymyr MASLYUCHENKO, Ivan MATSAK and Mykhaylo POPOV Anatolij Mykolayovych PLICHKO (on the 60-th anniversary) .....	294
Contents on Language of the article's original.....	313
Contents in English.....	316