

AMEA Riyaziyyat və Mexanika İnstitutunun Əsərləri jurnalına 2014-cü ildə 27 məqalə təqdim edilmişdir. Onlardan 12-si jurnalın 40-cı cildinin 1-ci nömrəsində dərc edilmişdir (bax <http://proc.imm.az>). Digər 15 məqalədən 8-i müsbət rəy alaraq bu ilin 2-ci nömrəsi üçün proc.imm.az saytının "Online First" bölməsində yerləşdirilmişdir. Digər 7 məqalə rəydədir. Jurnalın 40-cı cildinin 1-ci nömrəsində çap edilmiş məqalələr bunlardır:

- 1) Morrey-type Banach spaces, maximal operator and Fourier multipliers
by Vagif S. Guliyev, Zhijian Wu and Ying Xiao
- 2) On approximation properties of generalized parabolic potentials
by Şeyda Keleş and Simten Bayrakçı
- 3) On discreteness of the spectrum of a high order differential operator in multidimensional case
by Araz R. Aliev and Elshad H. Eyvazov
- 4) Structure of the root subspaces and oscillation properties of the eigenfunctions of completely regular Sturmian systems
by Ziyatkhan S. Aliyev and Elmin A. Agayev
- 5) Improved inverse theorems in weighted Smirnov classes
by Daniyal M. Israfilov and Ahmet Testici
- 6) On atomic decomposition for Hardy classes with respect to degenerate exponential systems
by Sabina R. Sadigova and Zaur A. Kasumov
- 7) A new iterative projection method for approximating fixed point problems and variational inequality problems
by Ibrahim Karahan and Murat Ozdemir
- 8) Existence and nonexistence of global solution of Cauchy problem for a class of system of semi-linear hyperbolic equations of fourth order with damping
by Akbar B. Aliev and Vusala F. Guliyeva
- 9) Weighted inequalities for Dunkl fractional maximal function and Dunkl fractional integrals
by Yagub Y. Mammadov
- 10) Maximal operators associated with Gegenbauer expansions on the half-line. I
by Elman J. Ibrahimov
- 11) Two-weighted inequality for p -admissible $B_{k,n}$ -singular operators in weighted Lebesgue spaces
by Vagif S. Guliyev, Fatai A. Isayev and Zaman V. Safarov
- 12) Two-weighted inequality for certain sublinear operator in weighted Musielak-Orlicz spaces
by Rovshan A. Bandaliev and Abdulla H. Isayev

Bundan əlavə jurnalın 40-cı cildinin xüsusi buraxılışı akademik M.G.Qasimovun 75 illik yubileyinə həsr olunmuşdur. Bu buraxılışda aşağıdakı elmi məqalələr çap olunmuşdur.

- 1) Solvability of boundary value problem for elliptic operator-differential equations of fourth order with operator boundary conditions

by Araz R. Aliev and Elvin S. Rzayev

2) Asymptotic behavior of eigenvalues of a boundary value problem for a second order elliptic differential-operator equation

by Bahram A. Aliev and Nargul K. Kurbanova

3) On the error estimation of the eigenvalues of some boundary value problems

by Rafiq M. Aliev and Sara G. Gasymova

4) Oscillation properties of the eigenvector-functions of the one-dimensional Dirac's canonical system

by Ziyatkhan S. Aliyev and Humay Sh. Rzayeva

5) Integral representations for a solutions for the diffusion differential equation

by Rauf Kh. Amirov and S. Gülyaz

6) Asymptotic properties of solutions of partial operator-differential equations in Hilbert spaces

by Gamidulla I. Aslanov

7) On Kostyuchenko problem

by Bilal T. Bilalov and Telman B. Kasumov

8) Spectral stability estimates for the eigenvalues of elliptic operators

by Victor I. Burenkov

9) Spectral analysis of the complex Hill operator on the star graph

by Rakib F. Efendiev and Luis M. Garcia-Raffi

10) Regularized trace formula for some singular Schrödinger type operator

by Zaki F.A. El-Raheem

11) On negative spectrum of two-dimensional Schrödinger operator in electromagnetic field

by Elshad H. Eyvazov

12) Initial abstract boundary value problems for parabolic differential-operator equations in UMD Banach spaces

by Angelo Favini and Yakov Yakubov

13) On solvability conditions of a boundary value problem with an operator in the boundary condition for a second order elliptic operator-differential equation

by Gunel M. Gasimova

14) Function spaces and integral operators associated with Schrödinger operators: an overview

by Vagif S. Guliyev

15) On construction of a quadratic Sturm-Liouville operator pencil from spectral data
by Gusein Sh. Guseinov

16) An inverse scattering problem for a system of Dirac equations with discontinuity conditions
by Hidayat M. Huseynov

17) Inverse scattering problem for Dirac-type systems with a self-adjoint potential
by Mansur I. Ismailov

18) Uniqueness of the solution of the inverse problem for one class of Sturm-Liouville operator
by Döne Karahan and Khanlar R. Mamedov

19) On the basis properties and convergence of expansions in terms of eigenfunctions for a spectral problem with a spectral parameter in the boundary condition
by Nazim B. Kerimov and Emir Ali Maris

20) Method of integration of the Volterra chain with stepwise initial condition
by Agil Kh. Khanmamedov and Laman K. Asadova

21) Absolute convergence of spectral expansion in eigenfunctions of third order ordinary differential operator
by Vali M. Kurbanov and Elnara B. Akhundova

22) Spectral expansion formula for a discontinuous Sturm-Liouville problem
by Khanlar R. Mamedov

23) On the spectrum of a class of non-self-adjoint "weighted" operator with point δ -interactions
by Manaf Dzh. Manafov

24) New limit-point criteria for Sturm-Liouville operator
by Karakhan A. Mirzoev

25) Generalization of one M.G. Gasymov theorem on solvability of a boundary value problem for second order operator-differential equations of elliptic type
by Sabir S. Mirzoev

26) Topological properties of the space of coefficients generated by the non-degenerate system in metric spaces
by Togrul R. Muradov

27) Direct and inverse scattering problems for the one dimensional Schrödinger equation with the energy dependent potential and discontinuity conditions
by Anar A. Nabiev

28) Properties of the spectrum and uniqueness of reconstruction of Sturm-Liouville operator with a spectral parameter in the boundary condition
by Ibrahim M. Nabiev and Aydin Sh. Shukurov

29) The asymptotic of solutions of singular differential equations with large spectral parameter
by Elvira A. Nazirova, Nurmukhamet F. Valeev and Yaudat T. Sultanaev

30) Construction of a kernel of the transformation operator for a fourth order differential bundle with multiple characteristics
by Elshar G. Orudzhev and Sahil A. Aliyev

31) On the spectrum of the pencil of second order differential operators with periodic coefficients on the semi-axis
by Ashraf D. Orujov

32) Application of the finite integral transformation method to solving mixed problems for hyperbolic equations with irregular boundary conditions
by Gamzaga D. Orujov and Elmaga A. Gasymov

33) Isospectrality problem for Dirac system
by Etibar S. Panakhov and Tuba Gulsen

34) Using of B.M. Levitan and M.G. Gasymov's solvability theorem to the inverse problem with nonseparated boundary conditions
by Victor A. Sadovnichii, Yaudat T. Sultanaev and Azamat M. Akhtyamov

35) Correct solvability of integro-differential equations arising in the theory of viscoelasticity
by Victor V. Vlasov and Nadezhda A. Rautian