

**Azərbaycan Respublikası Elm və Təhsil Nazirliyi
Riyaziyyat və Mexanika İnstitutu**

**Ministry of Science and Education of the Republic of Azerbaijan
Institute of Mathematics and Mechanics**

**RİYAZİYYAT VƏ MEXANİKANIN MÜASİR PROBLEMLƏRİ
Ümummilli Lider Heydər Əliyevin 100 illiyinə həsr olunmuş
Beynəlxalq Konfransın**

PROQRAMI

**MODERN PROBLEMS OF MATHEMATICS AND
MECHANICS**

PROGRAM

**of the International Conference dedicated to the 100th anniversary
of the National Leader Heydar Aliyev**

April 26-28 2023 Baku

**Chairmen: Corresponding member of ANAS,
Prof. Misir Mardanov**

Vitse-chairmen: Prof. Adalat Akhundov

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Working group

Head of the working group: Mehdi Mammadov

Kamala Abasova, Ramil Aliyev, Esmira Aliyeva, Aida Askerova, Irada Dadashova, Gunel Isayeva, Khumar Maharramova, Ibrahim Mammadov, Shamsiyya Muradova, Ayten Movsumova, Parvana Najafova, Mehriban Omarova, Gumru Sadygova, Sabina Salmanova Nemat Shikhverdiyev, Aida Tagiyeva, Aynur Tahirova.

Technical editors: Tahira Musayeva, Zaman Safarov

<i>Tarix</i>	<i>Saat</i>	
26.04.2023	11:00-13:00	<i>Açılış</i>
	14:30-18:00	<i>Plenar iclas</i>
27.04.2023	10:00-13:00	<i>Plenar iclas</i>
	14:30-18:00	<i>Bölmə iclasları</i>
28.04.2023	10:00-13:00	<i>Plenar iclas</i>
	14:30-18:00	<i>Bölmə iclasları</i>

<i>Date</i>	<i>Time</i>	
26.04.2023	11:00-13:00	Opening
	14:30-18:00	Plenary session
27.04.2023	10:00-13:00	Plenary session
	14:30-18:00	Sections session
28.04.2023	10:00-13:00	Plenary session
	14:30-18:00	Sections session

Konfransın açılış iclasının proqramı

Saat 10:00-da Ümummilli Lider Heydər Əliyevin məzarını ziyarət.

Konfransın açılış iclası 26 aprel 2023-cü il, saat 11:00-da keçiriləcək
Məkan: AMEA-nın əsas binasının ikinci mərtəbəsində kiçik akt zalı, Bakı, Hüseyn Cavid prospekti, 117

Tarix: 26.04.2023, Saat: 11:00-13:00

1.	<i>Açılış nitqi:</i>
	<ul style="list-style-type: none">• AMEA-nın prezidenti, akademik İsa Həbibbəyli.• Azərbaycan Respublikasının elm və təhsil naziri Emin Əmrullayev.
2.	<i>Heydər Əliyev müasir Azərbaycan dövlətinin banisidir:</i> Riyaziyyat və Mexanika İnstitutunun baş direktoru, AMEA-nın müxbir üzvü, prof. Misir Mərdanov .
3.	<i>Çıxışlar və xatirələr.</i>

Program of the opening meeting of the Conference

At 10:00 visiting the grave of national Leader Heydar Aliyev.

The opening meeting of the Conference will be held on April 26, 2023, at 11:00 at

Location: The small assembly hall, on the second floor of the main building of ANAS, Baku, Huseyn Javid avenue, 117

Date: 26.04.2023, Time: 11:00-13:00

1	<i>Opening speech:</i>
	<ul style="list-style-type: none">• President of ANAS academician İsa Habibbeyli• Minister of Science and Education of the Republic of Azerbaijan Emin Amrullayev
2	<i>Heydar Aliyev is the founder of the modern state of Azerbaijan</i> Director General of the Institute of Mathematics and Mechanics, corr. member of ANAS, prof. Misir Mardanov .
3	<i>Speeches and memories.</i>

PLENARY SESSION- HALL 1

26 April (14.30-18.00)

Chairman: M.Mardanov, V. Kalantarov

14.30-15.00: Shavkat Ayupov (Tashkent, Uzbekistan) – 2-local derivations and automorphisms on von Neumann algebras and AW*-algebras

15.00-15.30: Yusif Mammadov (Baku, Azerbaijan), Hikmat Ahmadov (Baku, Azerbaijan) – On a mixed problem for heat equation with time deviation in boundary conditions

15.30-16.00: Ljubisa Kocinac (Nis, Serbia) – Functors and some topological properties

16:00-16:30 Coffe Break

Chairman: Sh. Ayupov, Y. Memmedov

16.30-17.00: Anatoly Golberg (Holon, Israil)-Teichmüller's theorem on separating rings in higher dimensions

17.00-17.30: Elimhan Mahmudov (Istanbul, Turkiye), Misir Mardanov (Baku, Azerbaijan)–Optimization of hyperbolic-type polyhedral differential inclusions

17.30-18.00: Yuri Alkhutov, Greogy Chechkin, On boyarsky–Meyers inequality for a solution to the elliptic Zaremba problem

27 April (10:00-13:00)

Chairman: L. Kocinac, A.Golberg

10.00-10.30: Jozef Zajac (Chelm, Poland) – Mathematical methods in technical designs

10.30-11.00: Ekrem Savaş (Usak, Turkiye) – σ convergence of order β

11.00-11.30: Azimbay Sadullayev (Tashkent, Uzbekistan), Atamuratov Alimardon (Tashkent, Uzbekistan) – Polynomials on parabolic manifolds

PLENARY SESSION- HALL 1

11:30-12:00 Coffe break

Chairman: J.Zajac, A.Sadullaev

- 12.00-12.30: Varga Kalantarov (Istanbul, Turkiye)-Stablization of solutions to Navier-Stokes-Voigt and convective Brinkman-Forchheimer equations
- 12.30-13.00: Allaberen Ashyralyev (Istanbul, Turkiye), Ulker Okur (Nicosia)-Operator approach for the solution of stochastic differential equations

28 April (10:00-13:00)

Chairman: E.Savaş, H.Jafari

- 10.00-10.30: Giuseppe Di Fazio (Catania, Italy) – Regularity for elliptic equations under minimal assumptions
- 10.30-11.00: Abdullayev Fahreddin (Mersin, Turkiye) – On the some classical inequalities for algebraic polynomials in complex plane
- 11.00-11.30: Hossein Jafari (South Africa), Roghayeh Ganji (Babolsar, Iran) -A numerical scheme for a class of distributed-order fractional integro-differential equations

11:30-12:00 Coffe break

Chairman: F.Ciuzeppe, F. Abdullayev

- 12.00-12.30: Yalchin Efendiyev (Texas, USA) – Multicontinuum homogenization and applications
- 12.30-13.00: Agil Khanmamedov (Baku, Azerbaijan), Mammad Muradov (Baku, Azerbaijan) – Inverse spectral problems for one- dimensional Schrödinger with additional growing potentials

Thursday, April 27th, 2023
Section –Spectral theory of operators
14:30-18:00 HALL 1

Chairmen: prof. H. Aslanov, prof. A. Aliyev

1. H.I. Aslanov, M. Bayramoglu, On asymptotic properties of eigenvalues of higher order operator-differential equations on the semi-axis
2. B.Falda, Algebraic classification method of means
3. E.H. Eyvazov, L.V. Ibrahimova, On discreteness of the spectrum of a degenerate elliptic-differential operator
4. M. Bayramoglu, A. Bayramov, The asymptotic formulas for the sum of squares of negative eigenvalues of a differential operator with operator coefficient
5. A.R. Aliev, E.S. Rzayev, On solvability of boundary-value problem for fourth-order elliptic equation with operator coefficients
6. B.P. Allahverdiev, A dissipative singular boundary value transmission problem in limit-point case
7. N.Sazandrishvili, Analytic solution to a generalized lifeguard problem
8. M.T. Garayev, Noncyclic vectors of coanalytic Toeplitz operators and related questions
9. F.H. Rahimov, R. T. Aliyev, I.A. Ibadova, On the uniform integrability of a family of moments of the first intersection of a parabola by a perturbed random walk described by an autoregressive process (AR(1))
10. R. Dzhabarzadeh, A. Jabrailova, Some results of multiparameter spectral theory
11. N.G. Vahabov, The generalized Lengyel-Stone criterion and its applications
12. V. Khalilov, U.F. Mammadova, On the law of large numbers for the of Markov random walks described by the autoregressive process
13. S. A. Aliev, F. H. Rahimov, I. A. Ibadova, On limit behavior of the Markov random walks describes by the generalization of the autoregressive process of order one (AR(1))
14. A.N. Safarova, K.A. Alimardanova, The scattering problem for the system of six ordinary differential equations on a semi-axis with three given incident waves

15. F. Mehdiyeva, On the completeness and minimality of double and unitary systems in Morrey-type spaces
16. N.L. Muradova, On solvability of third-order operator-differential equation with discontinuous coefficient and operator in the boundary condition
17. M.R. Rehimli, On eigen-values and eigen-functions of a Fredholm type integral operator

Thursday, April 27th, 2023
Section –Functions theory
14:30-18:00 HALL 2

Chairmen: prof. R Aliev, prof. A. Artikbayev

1. R.A. Aliev, L.G. Samadov, Discrete Hilbert transform in discrete Holder spaces
2. A. Artikbayev, D.R. Tillayev, Property of external curvature of convex surfaces with a finite number of vertices
3. E.M. Mamedov, About special subspaces of Marcinkiewicz and Morrey spaces
4. R.I. Dmytryshyn, On the representing of functions of several variables by multidimensional J-fractions with independent variables
5. A.L. Shidlich, Direct and inverse theorems of approximation of functions given on hexagonal domains by the Taylor-Abel-Poisson means
6. Yu.I. Kharkevych, I.V. Kal'chuk, Approximations by the generalized Abel-Poisson integrals on the Weyl-Nagy classes
7. V.R. Misiuk, One analogue of the inversion of the Sobolev embedding theorem
8. F.A. Isayev, Commutators of multilinear Calder on-Zygmund operators with kernels of Dini's type on generalized local Morrey spaces
9. J.V. Azizov, Boundedness of fractional maximal operator in generalized weighted Morrey spaces on Heisenberg groups
10. V.G. Alili, Basicity of exponent system in the rearrangement invariant space
11. I.K. Maharov, Upper bound for the approximation error of rbf neural networks with two hidden nodes

12. A.E. Abdullayeva, N.I. Abdullayeva, On characterization of precompact sets on weighted Lebesgue spaces
13. G.K. Gasimova, Continuity of generalized Riesz potentials
14. S.R. Sadigova, On μ -strong Cesarusummability at infinity
15. A.N. Mammadova, F.B. Mammadova, On properties of weighted modulus continuity in Lebesgue spaces
16. S.A. Aliev, E. V. Agayev, Application of Jacobian polynomials
17. V.H. Hamzayev, Y.Y. Mammadov, On the commutator of Marcinkiewicz integral with rough kernels on generalized weighted Morrey spaces
18. M.S. Dzhabrailov, S.Z. Khaligova, On some imbedding theorems in the space $S_{p,\theta}^{r,\chi}(R^n; E)$
19. I.Sh. Jabbarov, M.M. Ismailova, On the bounds of the number of sheets of covering

Thursday, April 27th, 2023
Section – Differential equation
14:30-18:00 HALL 3

Chairmen: prof. R. Ashurov, prof. F. Mamedov

1. R. Ashurov, Non-local and inverse problems for the Rayleigh-Stokes equation
2. B.T. Bilalov, Y. Zeren, S.R. Sadigova, S. Cetin, On existence theorem on solvability in the small in Weighted Grand Sobolev spaces
3. Aripov M. Mathematical modeling of processes in one and two component nonlinear media
4. A. Asanov, T. Bekeshov, One class of non-classical nonlinear Volterra integral equation of the first kind
5. A.U. Mamadaliev, The Cauchy problem for a differential equation with the generalized Hilfer operator of fractional order
6. T.K. Yuldashev, J.A. Artykova, On a nonlocal problem for a second-order Fredholm integrodifferential equation with a degenerate kernel
7. F.I. Mamedov, Kh. Gasimova, On Dirichlet problem for a class of non-uniformly parabolic equations with measure data
8. M. M. Sabzaliev, I. M. Sabzalieva, On the asymptotics of the solution of an boundary value problem for an arbitrary odd order singularly perturbed differential equation

9. R. K. Tagiyev, Sh. I. Maharramli, Solvability of a nonlocal boundary value problem for a multidimensional parabolic equation
10. T.B. Gasyimov, B.Q. Akhmadli, On the strong solvability of a nonlocal boundary value problem for the Laplace equation in a rectangular domain
11. A. F. Guliyev, A new proof of Wiener's criterion for the heat equation
12. B. A. Aliev, Z. E. Ismayilzade, Problems of solvability of a boundary value problem with operator boundary conditions for an elliptic operator-differential equation of the second order
13. Y.Zeren, F.A.Alizadeh, F.E. Dal, On solvability of homogeneous Riemann boundary value problems in Hardy-Orlicz classes
14. R.M. Zeynalov, T.M. Ibrahimli, Obtaining necessary conditions for the local boundary condition problem for a first order elliptic equation
15. A.H. Hasanova, Uniqueness and stability of the solution of the inverse problem for equation of parabolic type
16. A. Khanizada, Determining the coefficient at the lowest terms in the system of elliptic equations
17. O.M. Huseynov, T.D. Mammadov, Fundamental solutions of the Cauchy-Goursat type problem for second-order hyperbolic equations and related optimal control problems
18. N.P. Nasibova, A.R. Safarova, On the weak solvability of a nonlocal boundary value problem for the Laplace equation in an unbounded domain
19. Z. D. Abbasov, Displacement of a string from finitely many points under the action of centralized forces in stationary mode
20. N.A. Neymatov, R.G. Poladov, Nodal solutions of some fourth order nonlinear boundaryvalue problems
21. O.Vantzov, Pattern formation in Ginzburg-Landau potentials with hard obstacles

Thursday, April 27th, 2023

Section –Optimal Control Problems

14:30-18:00 HALL 4

Chairmen: prof. A. Shamilov, prof. Y. Sharifov

1. M.J. Mardanov, Y.A. Sharifov, Fixed-point iteration method for solution first order differential equations with integral boundary conditions

2. M.J. Mardanov, A.M. Isayeva, Euler type system of equations in variational problems with delayed argument
3. A.Kh. Shamilov, One approach to approximate solutions of stochastic differential equations
4. A.J. Abdullayeva, I.G. Mamedov, Optimal control problem for a 3D Bianchi type integro-differential equation with non-classical boundary conditions
5. R.A. Veklych, Optimality conditions for the control of the time-fractional wave equation
6. G.G. Abdullaeva, H. R. Naghizade, An approach to the analysis and classification of medical errors
7. D. Mastaliyeva, Optimization of the first order partial differential inclusions with the Dirichlet problem
8. Z.C. Zabidov, Kh.M. Gadirova, Classification according to NDVI (normalized difference vegetation index) values, evaluation of discriminating threshold value in soil-vegetation classification

Thursday, April 27th, 2023

***Section –Algebra, Method of Teaching and History of Mathematics
14:30-18:00 HALL 5***

Chairmen: prof. S. Bayramov, dos. A. Babaev

1. C. G. Aras, S. Abdullayev, S. Bayramov, A study on parametric soft S-metric spaces
2. C.G.Aras, K. Veliyeva, S.Bayramov, Some fixed- point type theorems on parametric soft b- metric spaces
3. V. M. Jabbarzade, Functionally complete algebras in congruence varieties
4. D.A. Seyidov, Eigen subspaces of resonancing endomorphisms of algebra convergent power series \sum_n
5. A.A. Babaev, V. F.Mejlumbekova, NasireddinTusi about the “Beginning of sciences”
6. A.S. Aliyev, R. Q. Babaeva, Theses on four theorems regarding the surface of a right cylinder and a cone from place N. Tusi’s Treatise “Comments on the work of Archimedes” “On the ball and cylinder”

7. L.A. Shexzamanova, The theory of additions of the rotational motion of a material point around parallel axes in opposite directions by ancient astronomers
8. S. Khouyibaba, Algorithms: history and some of their applications
9. E.A. Gasymov, V.L. Haji-zadeh, J.Ch. Allahverdiyeva, Method of generalization of trigonometric functions
10. M.S. Dzhabrailov, S.B. Karimova, The place and tasks of teaching the subject of mathematical analysis in the training of a mathematics teacher
11. Sh.M. Aghazade, G.S. Novruzova, A. Bingol, GeoGebra program skills in high schools (X-XI Grades) in Azerbaijan

Thursday, April 27th, 2023

Section –Mechanics of fluid and gas

14:30-18:00 HALL 6

Chairmen: Corr.-member of ANAS, prof. G. Panahov, dos. E. Abbasov

1. G. M. Panahov, B. N. Sultanov, Influence of cyclic shock waves on reservoir structures and formations
2. G. M. Panahov, E. M. Abbasov, I. J. Mamedov, Effects of layer and gas separation temperatures on gas diffusion in porous media
3. E.M. Abbasov, N.R. Abdullayeva, Influence of sanding on the dynamics of gas movement
4. E.M. Abbasov, A.O. Darishova, The effect of time and temperature on the rheological behavior and flow performance of fluid
5. E.M. Abbasov, Sh.A. Kerimova, Movement of a gas-liquid mixture in a vertical pipe
6. P. Museibli A. Yuzbashiyeva, G. Aghayeva, The effect of electrokinetic properties on fluid flow in porous media
7. V.F. Burnashev, Z.D. Kaytarov, Z.Z. Eshdavlatov, Numerical modeling of multi-phase filtration in a deformable porous medium
8. J.M. Makhmudov, A.I. Usmonov, J.B. Kuljanov, M.S. Zokirov, Numerical solution of the anomalous filtration problem in a nonhomogeneous porous medium
9. A. Hummatov, Using analytical expression of depression curve for study of work of horizontal drain

Friday, April 28th, 2023
Section – Spectral theory of operators
14:30-18:00 HALL 1

Chairmen: prof. N. Kerimov, prof. V. Kurbanov

1. R.Kh. Amirov, Reconstruction of the Sturm-Liouville operator from nodal data
2. Z.S. Aliyev, N.S. Aliyeva, On a spectral problem for the Dirac system with boundary conditions depending on the spectral parameter
3. Y.N. Aliyev, N.B. Kerimov, Minimality conditions for Sturm-Liouville problems with a boundary condition depending affinely or quadratically on an eigenparameter
4. V.M. Kurbanov, Y.G. Abbasova, Bessel property for the of root vector-function of the second order differential operator with summable coefficients
5. V.M. Kurbanov, A.I. Ismailova, Riesz property criterion for the system of root function of second order differential operator
6. V.A. Mehrabov, Uniform convergence of Fourier series expansions in the root functions system of one fourth-order spectral problem
7. S.R. Sadigova, N.P. Nasibova, N.A. Ismailov, On the basicity of double system of exponents in the Weighted Lebesgue space
8. S.M. Tashpulatov, Structure of essential spectra and discrete spectrum of the energy operator of six-electron systems in the Hubbard model. Second singlet state
9. M.A. Turgunboeva, U.B. Soyibboev, Differential game in occasion of L-catch for non-inertial players under non-stationary geometric constraints on controls
10. E.J. Ibadov, On bessel property and unconditional basicity of the system of root vector-functions $2m$ -th order Dirac type operator with summable coefficient
11. K.S. Acar, M.I. Ismailov, Y. Zeren, Criterion for completeness and minimality of the weighted exponential system with excess in the grand Lebesgue spaces
12. E.M. Mustafayev, Sh.A. Muradova, Description of dissipative extensions of one operator with potential in the form of a Dirac function
13. T.R. Muradov, F.Sh. Mehdiyeva, On basicity of perturbed exponential system in Morrey-type spaces
14. A.A. Tagiyeva, On basicity of the perturbed system of exponents in weighted Morrey type space

15. M. Ismailov, I.F. Aliyarova, On a defective property of a weighted system of sines in Lebesgue spaces
16. E.B. Akhundova, On absolute convergence of spectral expansion in eigenfunctions of a third-order differential operator
17. A.Q. Akhmedov, I.Q. Feyzullayev, On the basis property in $L_p(0, 1)$ eigenfunctions of a second-order differential operator with a discontinuity point
18. Kh.R. Gojayeva, On absolutely and uniformly convergence of the spectral expansion for one boundary value problem of a second-order differential operator
19. A.E. Guliyeva, On basicity of a certain trigonometric system in a Weighted Lebesgue space

Friday, April 28th , 2023
Setion-Spectral theory of operators
14:30-18:00 HALL 2

Chairmen: prof. R. Rzayev, prof. T. Tunc

1. R.M. Rzaev, L.R. Aliyeva, Some inequalities for metric characteristics
2. Tuncay Tunc, Alper Erdem, Korovkin-type theorems for some types of convergence
3. R.A. Bandaliyev, R.F. Babayev, On weak compactness in weighted variable Lebesgue spaces
4. A.M. Najafov, L. Sh. Gadimova, On embedding theorems in generalized grand weighted Sobolev spaces
5. M.G. Hajibayov, R. Sh. Huseynzade, Behavior at zero of finite differences of Riesz potentials
6. J.I. Mamedkhanov, I.B. Dadashova, Problems on the curves in a complex plane related with classic approximation theorems
7. R.M. Rzaev, L.E. Huseinova, Some Zygmund type estimates for a singular integral
8. V.V. Savchuk, Some extremal problems of approximation theory of holomorphic functions
9. A.S. Serdyuk, T.A. Stepaniuk, Lebesgue type inequalities on the sets of (φ, β) -differentiable functions
10. A.Kh. Asgarova, Representation by a sum of algebras in the space of continuous functions

11. Z.A. Kasumov, N.R. Ahmedzadeh, On some properties of the Riesz potential in the Grand Lebesgue space
12. D.R. Aliyeva, On boundedness of multidimensional Hausdorff operators in weighted Lebesgue spaces
13. Kh.S. Nasirova, On commutator of Hausdorff operators in weighted Lebesgue spaces
14. Sh.A. Muradova, Investigation of parabolic fractional integral operators in parabolic local generalized Morrey spaces
15. P. Ozkartepe, B. Atman, M. Ikiz, On the growth of m-th derivatives of algebraic polynomials with corners in a Weighted Bergman space
16. Salman Ashraf, Qaiser JahaN, Dilation Operators in Besov spaces over Local Fieldsn
17. C.D. Gün, On the estimation of the derivatives of algebraic polynomials in weighted Lebesgue space
18. Y.Y. Mammadov, F.A. Muslimova, On embeddings into the total Morrey spaces in the Dunkl setting
19. J. Aliyev, The boundedness of maximal operator in the weighted Morrey spaces, associated with the Laplace-Dunkl differential operator
20. Z.T. Abdukahorova, A.M. To'xtabayev, Weakly periodic p-adic generalized Gibbs measures for the Ising model on the Cayley tree of order two
21. M.M. Raxmatullayev, Z.T. Abdukahorova, A.M. Tukhtabaev, Weakly periodic p-adic generalized Gibbs measures for the Ising model on the Cayley tree of order two
22. Kh. Sanjeev, R. Sharma, Analysis of blood flow through multiple stenoses in a narrow artery
23. G.A.Dadashova, On some properties of the Lorentz Gegenbauer spaces

Friday, April 28th , 2023
Section-Differential equation
14:30-18:00 HALL 3

Chairmen: dos. A. Guliyev, dos. Sh. Bagirov

1. A. Ashyralyev, D. Agirseven, S.B. Muazu, A note on the delay non-linear parabolic differential equations
2. A.Ya. Akhundov, A.Sh. Habibova, On an inverse problem for a

- parabolic equation in a domain with moving boundaries
3. E.I. Azizbayov, Y.T. Mehraliyev, A coefficient identification problem in a two-dimensional hyperbolic equation with an integral overdetermination condition
 4. E.A. Gasymov, A mixed problem for parabolic equations with total conditions
 5. Sh.G. Bagirov, A. F. Jabrailova, The absence of positive global periodic solution of a second-order semi-linear parabolic equation with time-periodic coefficients
 6. A.B. Aliev Y. M. Farhadova, The behavior of solutions of nonlinear suspension bridge problem with time-varying delay as $t \rightarrow +\infty$
 7. E.M. Mamedov, Some results on the global behavior for the solution of a nonlinear fourth order equation with nonlinear boundary conditions
 8. M.N. Omarova, Global regularity in Orlicz-Morrey spaces of solutions to parabolic equations with V M O coefficients
 9. A.F. Guliyev, A.J. Abdullayeva, The sufficient condition for the regularity of the boundary point for the parabolic equation in terms of potential
 10. S.S. Akhiev, F.Sh. Akhmedov, H.A. Akperova, Fundamental solution for a nonlocal second order hyperbolic side problem
 11. N.M. Mammadzade, S.M. Mammadli, On the Dirichlet problem for the non-homogeneous Dirichlet problem for a degenerate fractional order Laplace equation
 12. V.Yu. Mastaliyev, On solvability of mixed problem set for a class of equations that change type
 13. S.J. Aliyev, A.Q. Aliyeva, The study of multidimensional mixed problem for one class of third order nonlinear equations
 14. F.M. Namazov, The structure of bifurcation components of the solution set of some nonlinear eigenvalue problems
 15. F.S. Muhtarov Rayleigh quotient for two-interval periodic Sturm-Liouville problems
 16. M.H. Mahmudova, On the global solvability of the Cauchy problem for an infinite-dimensional system of nonlinear differential equations
 17. M.M. Mammadova, Global bifurcation from infinity in nondifferentiable perturbations of half-linear eigenvalue problems for ordinary differential equations of fourth order

18. Y.Y. Mustafayeva, N.A. Aliyev, Regularization of necessary conditions of a nonlocal boundary value problem for a three-dimensional mixed-composite equation by new method
19. Y.N. Aliyeva, Global bifurcation from infinity in nonlinear eigenvalue problems for ordinary differential equations of fourth order with a spectral parameter in the boundary condition
20. Sh.Y. Salmanova, The Dirichlet problem for semilinear elliptic equations of the second order with discontinuous coefficients
21. H. Kalantarova, Backward behavior and determining functionals for chevron pattern equations
22. J. Kalantarova, Blow up of solutions to coupled systems of nonlinear equations

Friday, April 28th, 2023
Section – Solid body mechanics
14:30-18:00 HALL 6

Chairmen: prof. L. Talybly, prof. N. Rassoulova

1. L.Kh. Talybly, Solution of the viscoelastic boundary value problem for a rotating disk
2. N.B. Rassoulova, M.B. Rassoulov, T.M. Mahmudzade, The Lamb problem for an elastic system layer and half-plane
3. A.B. Gasanov, S.Yu. Guliyeva, E.M. Akhundova, Studying some effects arising in inhomogeneous media during the passage of non-stationary waves
4. H.A. Nagiev, On scaling the representativeness of sample statistics in solving a stochastic control problem
5. I.Kh. Mirzazade, H.R. Naghizade, G.G.Abdullaeva, Monitoring of patients after co poisoning
6. T.M. Shamiyev, On flexure of orthotropic rectangular plates with respect to different modularity
7. R.K. Mehtiyev, Adhesion cracks in a composite reinforced with unidirectional fibers under longitudinal shear
8. O.Sh. Salmanov, Asymmetric natural vibrations of a fluid containing cylindrical shell stiffened with rods and subjected to the action of compressive force along the axis
9. G. Khimshiashvili, Coulomb control of mechanical linkages

10. A.M. Polatov, A.M. Ikramov, J.K. Odilov, Modeling the solution to a non-stationary quasi-static problem of thermoelastic deformation of non-homogeneous bodies
11. Z.M. Badirov, Dances of a non-molicy, orthotropic cylindrical cover in dynamic contact with a bubbled liquid, reinforced with shafts
12. H.A. Mammadova, On determining the time to corrosive failure with nonsteady potential changes
13. M.A. Mammadova, Solution of the problem of the long durability of hollow shaft at torsion with the account of its damageability
14. A.H. Movsumova, Free vibrations of inhomogeneous, weakened cylindrical panels in contact with a viscoelastic medium, reinforced by shafts
15. E.T. Bagirov, S.D. Akbarov, On the influence of the residual stresses arising from the contact of the cut on the dispersion of axisymmetric longitudinal waves in the two-layer hollow cylinder
16. N.M. Nagiyeva, On determining the number of loading cycles to failure of car axle
17. F.A. Seyfullaev, Influence of effect of a sliding friction on the characteristic of natural frequencies of the longitudinally supported cylindrical envelopes with filler at an axial compression
18. V.B. Rzayeva, Free vibrations of an inhomogeneous fluid-contacting shell strengthened with inhomogeneous rods

KONFRANSIN BAĞLANIŞI- ZALI

Tarix: 28.04.2023, Saat:18:10-18:30

CLOSİNG OF THE CONFERENCE- HALL 1

Date: 28.04.2023, at 18:10 -18:30