

TURAN-Fundamental Sciences Symposium (TURAN25)													
June 23, 2025 – MONDAY													
08.30-10.00	REGISTRATION												
10.00-12.00	OPENING SPEECHES Prof. Dr. Salim YÜCE, Chair of the Symposium, Dean of the Faculty of Arts and Sciences, Yıldız Technical University, Türkiye Prof. Dr. Misir MARDANOV, Corresponding Member of the Azerbaijan National Academy of Sciences, Director of the Institute of Mathematics and Mechanics, Azerbaijan Prof. Dr. Eyüp DEBİK, Rector, Yıldız Technical University, Türkiye Prof. Dr. Aziz Sancar, Honorary Chair of the Symposium, 2015 Nobel Laureate in Chemistry, Department of Biochemistry and Biophysics, University of North Carolina, USA												
12.00-13.30	LUNCH												
13.30-14.15	INVITED PLENARY TALK 1: PROF. DR. İ. HALİL KAVAKLI, Can We Target the Core Clock Mechanism for the Treatment of Different Diseases?, Chair: M. Kasım ŞENER			HALL 1									
14.15-14.45	INVITED TALK: KEMAL YAVUZ ATAMAN, Maveraünnehir, Horasan, Harezm Havzasında Muhtelif İlimlerin Birlikte Gelişmesi, Meşhur Alimlerin Yetiğmesi, Kıymetli Eserlerin Yazılması Üzerine Bir Analiz , Chair: Senem ÖNER BULUT												
14.45-15.00	Coffee and Tea Break												
HALL 1, Session 2, Mathematics, Chair: FATMA KARACA													
15.00-15.15	Zehra İŞBİLİR, 2-Parameter Generalized Quaternions with Generalized Tribonacci Numbers Components	15.00-15.15	Suzan İŞİK, Improved Fixed Point Approximations via Picard's Three-Step Iteration for Suzuki-Type Non-Expansive Mappings	15.00-15.15	Deniz GÜNDOĞAN, Modelling Electromagnetic Wave	15.00-15.15	İsmet UĞÖR, Electrodeposition and Spray Techniques for Pd/Pd Coated Nickel Foam Electrodes						
15.15-15.30	Edanur ERGÜDÜ ARSLAN, Calculus on Real-variable Split Quaternion-valued Functions	15.15-15.30	İpek Ebru KARACA, Investigation of Fractal Dimension Algorithms in Different Geometries	15.15-15.30	Handan ÇELİK, Numerical Modeling of Stars and Mathematical Analysis	15.15-15.30	Fatih PİLAVCI, Kırık Ventili (Levelling Valve) Hava Akış Karakteristiklerinin Karşılaştırılması Teknik İnceleme						
15.30-15.45	Pelin DURSUN, Characteristic Roots, Eigenvalues and Eigenvectors of a Certain Type of 4x4 Dual Tridiagonal Matrices	15.30-15.45	Radwa ANSARY, Machine Learning-Based Classification of Chaotic Behavior in Discrete Dynamical Systems	15.30-15.45	Abdullah YALÇIN, New Midpoint and Trapezoid-Type Inequalities for Co-ordinated η -Convex Functions via Variable-Order Fractional Calculus	15.30-15.45	Serdar DİZMAN, Sıvı İlinde Nükleer Güç Santrali Öncesi Kabaı Nehrinin Sulanında Tritiyum Radyoaktifliğinin Analizlenmesi						
15.45-16.00	Coffee and Tea Break												
HALL 1, Session 3, Mathematics, Chair: Farhad MAMMADOV					HALL 2, Session 3, Mathematics, Chair: Aysel TURGUT VANLI			HALL 3, Session 3, Mathematics, Chair: Neslihan ÖZDEMİR			HALL 4, Session 3, Mathematics, Chair: Radva ANSARY		
16.00-16.15	Sema Nur ÇEPPE, Comparative Analysis of Türkiye's Road Traffic Accidents Using Data Mining Techniques	16.00-16.15	Dilara KARŞIOĞLU, Variation of parameters and Hölder stability of differential	16.00-16.15	Çiğdem Zeynep YILMAZ, A Study on Dual Quaternionisms with k-Pell and k-Pell-Lucas Coefficients	16.00-16.15	Hamide Feyza AYKUT, Hyperbolic Functions on Split Quaternionisms and Their Characteristics						
16.15-16.30	Külbra ÇETİNEREK, The Moment of Inertia of Generated Curves: A Holditch-Type Theorem	16.15-16.30	Gencer AKKAYA, W5-Curvature Tensor on a Complex Contact Space Form	16.15-16.30	Doğuş Çağlar ÇAY, A Study on Vietoris' Hybridomials	16.15-16.30	Senay ÇORLUH ŞENOCAK, Surface Pencil With Constant Gaussian Curvature Along A Non-null Curve						
16.30-16.45	Merve ÇOLAK, Do Oil Prices Have a Chaotic Effect on Unemployment and Inflation	16.30-16.45	Yonca SEZER, Schauder Estimates for Elliptic Operators in Banach-Sobolev Spaces	16.30-16.45	Emel KARACA, On multiplicative magnetic flux ruled surfaces	16.30-16.45	Daniya Budak, Rectifying Rose Ruled Surfaces						
16.45-17.00	Nisa ÇELİK, Genel DSW Sistemine Geliştirilmiş Jacobi Eliptik Fonksiyon Yaklaşımı: Tam Çözümler, Kararlılık ve Simülasyonlar	16.45-17.00	Ömer DURAN, Identities on the generalized harmonic numbers of rank with order using generating functions	16.45-17.00	Gülüm Yelise SAÇLI, A Study on the Dual Quaternionic Sequence with Vietoris' Components	16.45-17.00	Zehra Nur BAKIRBAŞ, The Cross products on Dual and Dual Lorentzian Spaces						
17.00-18.00	POSTER/Coffee and Tea Break												
18.30	DINNER												
June 24, 2025 – TUESDAY													
10.00-10.45	INVITED PLENARY TALK 2: PROF. DR. BİLAL BİLALOV, Some Questions of X-valued Elliptic Equations, Chair: Misir MERDANOV						HALL 1						
10.45-11.15	INVITED TALK: DR. AMİR MOSAVİ, A Decade of Machine Learning Research: Evaluation Metrics, Taxonomies and Bibliometrics Analysis, Chair: Yonca SEZER												
11.15-11.30	Coffee and Tea Break												
HALL 1, Session 1, Mathematics, Chair: Muhammet KNEFATİ		HALL 2, Session 1, Mathematics, Chair: Saniya ALLAHVERDİYEVA		HALL 3, Session 1, Chemistry, Chair: Rana KHANKISHİYEVA		HALL 4, Session 1, Biology, Chair: Semiha ERİŞEN							
11.30-11.45	Betül ÖZTÜRK, Ban Antiviral Moleküllerin Topolojik Karakterizasyonu	11.30-11.45	Günay ASLAN, Solitary Wave Solutions of the Two-Dimensional Fractional-Order Nonlinear Schrödinger Equation	11.30-11.45	Nargis RAHMİMLİ, Particle Size Analysis of Polymer-Based Metal Nanoparticles Using DLS Method	11.30-11.45	Deniz Duru DERİVS, Potential Use of Watermelon Seed Oil as an Alternative Oleic Acid Source Enhanced by Coffee-Derived Caffeic Acid in Cholesterol Treatment						
11.45-12.00	Emine KOPARAL, Affine Factorable Surfaces in Euclidean 4-Space E^4	11.45-12.00	Elman İBRAGİMOV, Boundedness criteria for the G-fractional integral and G-fractional maximal operator on Gegenbauer-measure spaces	11.45-12.00	Elmira ALIYEVA, The Study of The Swelling Ratio of Gum Arabic and Acrylamide Hydrogel in Solutions with Different Ph	11.45-12.00	Melika Feray SARIKAYA, Ban Yonca (Medicago sativa L.) Genotiplerinin İPES-retrotranspozon Markörleri ile Genetik Çeşitliliğin Değerlendirilmesi						
12.00-12.15	Bayra SARUHAN, Monge Surfaces With Their Applications	12.00-12.15	Bedriye EceM AKGÜÇ CİMBİZ, Hemen Hemen Neo Kobalans Sayıları	12.00-12.15	Akbota KUANDYKOVA, Synthesis, structure, and properties of new alicyclic and aromatic amidophosphates	12.00-12.15	Narmin GULIYEVA, γ (Gamma) İyonlarıyla Muamelelerin Bitkilerde Tuz (NaCl) Stresine Tepkisi						
12.30-13.30	LUNCH												
INVITED PLENARY TALK 3: PROF. DR. SALİM ÇERÇİ, CERN Today: Pushing the Boundaries of Particle Physics, Chair: Zeynep GÜVEN ÖZDEMİR													
14.15-14.45	INVITED TALK: PROF. DR. FERMAN MAMEDOV, On the L_1 data Dirichlet problem for the nonuniform, Chair: Bilal BİLALOV						HALL 1						
14.45-15.00	Coffee and Tea Break												
HALL 1, Session 2, Mathematics, Chair: Buazhar KOCHKONBAEVA		HALL 2, Session 2, Mathematics, Chair: Nail TUKTAMYSHOV		HALL 3, Session 2, Chemistry, Chair: Akbota KUANDYKOVA		HALL 4, Session 2, Physics, Chair: Aydan KHALIGZADE							
15.00-15.15	Abdurrahman DAYIOĞLU, Bazı Özel Affin Yapıların ve Duallerinin Kromatik İndislerinin Bulunması Üzerine	15.00-15.15	Saniya ALLAHVERDİYEVA, On solvability an inverse value problem for the Boussinesq-Love equation with nonlocal integral conditions	15.00-15.15	Rana KHANKISHİYEVA, Development of Lead-Free Epoxy Resin Composites for X-Ray Shielding	15.00-15.15	Amur SERIKBAIYEV, Surface Engineering of Ti3Nb13Zr Implants Using Microarc Oxidation and Hydroxyapatite-Based Thermal Spraying						
15.15-15.30	Neslihan ÖZDEMİR, Optical drmons for the $(3+1)$ -Dimensional Perturbed Nonlinear Schrödinger Equation having the Cubic-Quintic Laws and the Spatio-Temporal Dispersion	15.15-15.30	Muhammet KNEFATİ, A-Convergence For Proximal Point Algorithm And Fixed Point Problem in Generalized CAT(0) Spaces	15.15-15.30	Pervane BABAYEVA, Alümit Çevrelerinin RSM Kullanılarak Lajinin Optimizasyonu	15.15-15.30	Jolán FODOR, A New Force in Nature? The Magnetic Moment of the Neutron						
15.30-15.45	Başı ÇELİK, TBMM Masraf Vekâletinin 1920 yılında aldığı geometri öğretimi kararları üzerine	15.30-15.45	Rumella JAFAROVA, Mathematical Modeling of Investment Risks in the Construction Sector Using Fuzzy Logic	15.30-15.45	Gülnel AZİMOVA, Synthesis of Green Chemistry-Based Catalyst for Carbon Monoxide Neutralization	15.30-15.45	Rakhshana MAMISHOVA, Dielectric Properties Of $CuTiS_3$ Crystals Studied Via Impedance Spectroscopy						
15.45-16.00	Coffee and Tea Break												
HALL 1, Session 3, Mathematics, Chair: Basri ÇELİK		HALL 2, Session 3, Mathematics, Chair: Rumella JAFAROVA		HALL 3, Session 3, Chair: Misir MERDANOV		HALL 4, Session 3, Physics, Chair: Rakhshana MAMISHOVA							
16.00-16.15	Hande Ulu TUNA, Competitive Systems via Hamiltonian Framework and Artificial Neural Estimation	16.00-16.15	Nail TUKTAMYSHOV, Impulse-Hydrodynamic Model of Explosive Impact on a Half-Plane with Circular Cavity	16.00-16.15	Adil ABDULLAYEV, Influence of Gamma Radiation on the Anisotropy of Electrical Conductivity in $TiGaTe_2$ Crystals	16.00-16.15	Aydan KHALIGZADE, Effect of Doping and Radiation on the Conductivity Mechanism in Layered Gas Crystals						
16.15-16.30	Yaprak DERİCİOĞLU, Data-Driven Estimation of Krylov Iterations in Riccati Solvers	16.15-16.30	Abdusobir SAİDOV, Model And Theorem Of Existence Of The Problem Of Optimal Control Of The Customs Clearance Process	16.15-16.30	Aida TAGIYEVA, On an Algorithm for a Morphological Analyzer of the Azerbaijani Language	16.15-16.30	Amina MIKAYILOVA, Prospects of Thermal Waters Usage in Small Power Industry						
16.30-16.45	Serkan ÇAKMAK, q -Türev Kullanarak Tanımlanan Yeni Bir Harmonik Fonksiyon Sınıfının Geometrik Özellikleri	16.30-16.45	Narmina GUBATOVA, Necessary conditions for weak and strong local minimum the problem of the calculus of variations with higher order derivatives	16.30-17.00	Surayy AKBAROV, The Influence of the Interaction with Fluids of the Hollow Cylinder with Inhomogeneous Initial Stresses on the ZGV Modes that Occur with Asymmetric Wave Propagation	16.30-16.45	Şümeyye BÜYÜKAKAZ, (E)-2-((2,4-dihidroksibeniliden) tiyosemikarbazon ve (E)-2-(((1H-indol-3-yl) metil)en) tiyosemikarbazon komplekslerinin yapısal ve spektroskopik özelliklerinin DFT metoduyla incelenmesi						
16.45-17.00	Fatma KARACA, Some Characterizations of Gradient Ricci-Yamabe Solitons	16.45-17.00	Özmel HAMADI, Numerical Analysis of Stiffened Shell Structures Using an Efficient Three-Dimensional Finite Element	17.00-17.15	Baharçin AKHMADLI, On the strong solvability of a nonlocal boundary value problem for the Laplace equation in weighted grand Sobolev spaces in rectangle	16.45-17.00	Zarina ARINGODHINA, Optimization of Ion-Plasma Nitriding Parameters for Ti-6Al-4V Titanium Alloy						
17.00-17.15	Burcu ALTINTAŞ, Matematik Lisans Öğrencilerinin Seçmeli Ders Seçimlerinin Oyun Teorisi ile Matematiksel Modellenmesi	17.00-17.15	Shahin GULIYEV, Development of a General Algorithm for Solving Stability Problems of Plates on Elastic Bases	17.00-17.15		17.00-17.15	İpek BALNAN, Enhancement of Visible-Light-Driven Photocatalytic Activity in Gd-Doped $CdTe/ZnO$ Nanocomposites						
17.15-18.00	POSTER/Coffee and Tea Break												
18.30	DINNER												
June 25, 2025 – WEDNESDAY													
10.00-11.30	BILATERAL COOPERATION PANEL						HALL 1						
11.30-12.30	LUNCH												
12.30	EXCURSION (17.00 BOAT)												
20.00	DINNER												