22 September 2022 Thursday

	OPENING CEREMONY
10:00-11:00	Assoc. Prof. Dr. Hasan Hüseyin SAYAN (Head of MATDER)
	Prof. Dr. Mustafa AŞCI (Head of Mathematics Department)
	Prof. Dr. Yakup KASKA (Dean of Science Faculty)
	Prof. Dr. Ahmet KUTLUHAN (Rector of Pamukkale University)

	PLENARY LECTURE
	Fatma Yıldız Hall
	Chair: Abdulhamit KÜÇÜKASLAN
11:15-12:00	**Invited Spiker: Prof. Dr. Ömer AKIN** **"Some Interdisciplinary Applications of Fuzzy Logic"**

	PLENARY LECTURE
	HALL S1
	Chair: Malkhaz BAKURADZE
13:00-14:00	**Invited Spiker: Prof. Dr. Yoshihiro Sawano** **"Weighted Morrey Spaces"**

22 September 2022 Thursday
SESSION I / 14:15-15:35 (Time zone: UTC+3 / İstanbul)

HALL S1

Chair: Özlem Girgin ATLIHAN

Time	Author(s)	Title
14:15-14:35	Reyhan Canatan İLBEY Nilay Şahin BAYRAM	On (p,q)- Analogue of Mittag-Leffler Operators
14:35-14:55	Hamdullah BAŞARAN Mehmet GÜRDAL	Refinement of Berezin Radius Inequalities with Kantorovich Ratio
14:55-15:15	Mustafa GÜLFIRAT Nilay Şahin BAYRAM	On Ideals I(c,q)
15:15-15:35	Abdulhamit KÜÇÜKASLAN	Spanne and Adams type Results in the Vanishing Generalized Weighted Local Morrey Spaces

HALL S2

Chair: Ruslan SURMANIDZE

Time	Author(s)	Title
14:15-14:35	Nurettin DOĞAN Selami BAYEĞ Raziye MERT Ömer AKIN	Singularly Perturbed Two-Point Fuzzy Boundary Value Problems
14:35-14:55	Rauf AMIROV Sevim DURAK	Inverse Spectral and Inverse Nodal Problems For Singular Diffusion Equation
14:55-15:15	Özge ARIBAŞ İsmet GÖLGELEYEN Mustafa YILDIZ	On the Existence and Uniqueness of an Initial-Boundary Problem for a Semilinear Fractional Diffusion Equation
15:15-15:35	Ali KURT Abdulsamet BEKTAŞ	Analytical Solutions of Conformable Time Fractional Partial Differential Equation

22 September 2022 Thursday
SESSION I / 14:15-15:35 (Time zone: UTC+3 / İstanbul)

HALL S3		
Chair: Canan Celep YÜCEL		
Time	**Author(s)**	**Title**
14:15-14:35	Gül Karadeniz GÖZERİ	A Note on the Sequence of Balancing-Like Numbers
14:35-14:55	Serel MADAK	New Coding/Decoding Algorithm on k-Order Fibonacci Numbers
14:55-15:15	Süleyman AYDINYÜZ Mustafa AŞCI	Moore-Penrose Inverse of Generalized k-Order Fibonacci Numbers
15:15-15:35	Abdullah AKKURT Hüseyin YILDIRIM	Catalan Numbers in terms of (α,k)-gamma function and (α,k)-beta function

HALL S5		
Chair: İsmet AYHAN		
Time	**Author(s)**	**Title**
14:15-14:35	Berna AYGÜN	Gamification in Computer Aided Mathematics Education: Classcraft
14:35-14:55	Nehir KEYİK Rezan YILMAZ	6th Grade Students' Construction Processes of Prime Number Concept in Realistic Mathematics Education Based Environment
14:55-15:15	Süleyman Emre AKTAŞ Çağlar Naci HIDIROĞLU	Investigation of Debugging Skills in Computational Thinking in the Technology-Enriched Mathematical Modeling Cycle
15:15-15:35		

22 September 2022 Thursday
SESSION II / 15:45-17:05 (Time zone: UTC+3 / İstanbul)

HALL S1	

Chair: Ainur TEMIRKHANOVA

Time	Author(s)	Title
15:45-16:05	Aygül BİLGİN Hülya DURU Serkan İLTER	A note on quasi-metrizable spaces
16:05-16:25	Sena Özen YILDIRIM Ayşe Nur TUNÇ	On a Topological Operator via Local Closure Function
16:25-16:45	Havva Nur ÖZTÜRK Serkan İLTER Hülya DURU	A note on global classical solutions to a Cauchy problem
16:45-17:05	Canay AYKOL	Two-weighted inequalities for Riesz potential and its commutators in generalized weighted Morrey spaces

22 September 2022 Thursday
SESSION II / 15:45-17:05 (Timezone: UTC+3 / İstanbul)

HALL S2

Chair: Abdulhamit KÜÇÜKASLAN

Time	Author(s)	Title
15:45-16:05	Emel KARACA	A Survey on Non-null Slant Ruled Surfaces
16:05-16:25	Hatice TOZAK	On k-type spacelike slant helices due to Bishop frame in Minkowski space-time
16:25-16:45	Ruslan SURMANIDZE	On Dimensions of Invariant Tensor Fields on MWH Spaces with Subgroup of Given Type
16:45-17:05	Serpil HALICI	p,q-Harmonic Numbers

HALL S3

Chair: Ali KURT

Time	Author(s)	Title
15:45-16:05	Ramin FARZULLAZADEH Khanlar MAMEDOV	Spectral Expansion Formula for a Singular Sturm-Liouville Problem
16:05-16:25	Shabnur ALIZADEH Khanlar MAMEDOV	On the Scattering Problem for a Discontinuons Boundary Value Problem
16:25-16:45	Jalolxon NURITDINOV	Minkowski difference of cubes
16:45-17:05	Jan ZEMLICKA	Small, compact or connected objects?

22 September 2022 Thursday
SESSION II / 15:45-17:05 (Timezone: UTC+3 / İstanbul)

HALL S5	ONLINE	
Chair: Berna AYGÜN		
Time	**Author(s)**	**Title**
15:45-16:05	Mehmet ERÇOBAN Sare ŞENGÜL	Examining the Processes of 7th Grade Students' Understanding of the Concept of Arithmetic Mean in the Framework of 3E Learning Model: Within the Scope of Open-Ended Task
16:05-16:25	Ferdağ CULHAN Emine Gaye CONTAY	Discursively Examination of 8th Grade Students' Geometric Thinking Levels
16:25-16:45	Mustafa ALTUNTAŞ İsmail KAYGISIZ İbrahim ÇETİN Şeyma KARAN Halil İbrahim CANLI	Model Eliciting Activity Experiences of Primary School Teachers A TÜBİTAK Project(TM2İ)
16:45-17:05	İbrahim GÜNALTILI	The Effects of Mathematics on Human Intelligence-I

PLENARY LECTURE	
HALL S1	
Chair: Emine Gaye ÇONTAY	
17:15-18:15	**Invited Spiker: Prof. Dr. Gila Hanna-Dr. Kitty Yan** **"Teaching proof with an interactive theorem prover"**

23 September 2022 Friday

PLENARY LECTURE	
HALL S1 Google Meet Link for Online Participations: https://meet.google.com/dpb-zphc-phm	
Chair: Abdulhamit KÜÇÜKASLAN	
09:00-09:45	**Invited Spiker: Prof. Dr. Amiran GOGATISHVILI** **"Weighted integral inequalities restricted on the cone of monotone functions and applications in the embedding's of Lorentz-type spaces"**

23 September 2022 Friday
SESSION III / 10:50-12:10 (Time zone: UTC+3 / İstanbul)

HALL S1	Google Meet Link for Online Participations: https://meet.google.com/dpb-zphc-phm	
Chair: Alp Arslan KIRAÇ		
Time	**Author(s)**	**Title**
10:20-10:40	Şükran KONCA	A new 2-norm derived by bounded linear functionals on the space of p-summable sequences of real numbers
10:40-11:00	Ebru ALTIPARMAK Ibrahim KARAHAN	A New Accelerated Fixed-Point Algorithm with Application to Image Restoration Problem
11:00-11:20	Müjdat AĞCAYAZI	Some Results on Commutators

11:20-11:40	Süleyman GÜNEŞ Rezan YILMAZ	Problem Solving Processes of Preservice Mathematics Teachers with Geometer's Sketchpad: The Case of Simson Line Theorem

HALL S2	**Google Meet Link for Online Participations: https://meet.google.com/rfg-yfhs-evq**	
	Chair: Handan Çerdik YASLAN	
Time	**Author(s)**	**Title**
10:20-10:40	Sema SERVİ Kürşat CANEVİ Galip OTURANÇ	Comparison of Semi-Analytical Methods with Solving Surge Tank Problem
10:40-11:00	Orhan ÖZDEMİR	Oscillation criteria for third-order nonlinear neutral differential equations via comparison principles
11:00-11:20	Şerife YILMAZ	Some problems with stabilization of linear systems
11:20-11:40	Esra ÇONGAR Sevim DURAK	Inverse Nodal Problems For Sturm-Liouville Operators With Singular Coefficient

23 September 2022 Friday
SESSION III / 10:50-12:10 (Time zone: UTC+3 / İstanbul)

HALL S3	**Google Meet Link for Online Participations: https://meet.google.com/qtk-qsjz-pyv**	
	Chair: Gül Karadeniz GÖZERİ	
Time	**Author(s)**	**Title**
10:20-10:40	Ali AYTEKİN Tunçar ŞAHAN	Coverings of Hom-Lie Crossed Modules
10:40-11:00	Miraç ÇETİN	Idun-semicommutative Rings
11:00-11:20	Aysun Erdoğan SERT Simge ÖZTUNÇ	Banach and Kannan Type Contracting Mappings for Box Metric in Digital Images
11:20-11:40	Okan Bodur Canan Hazar Güleç	On Some Properties of Double Series Spaces Derived by Cesaro Means

HALL S4	Google Meet Link for Online Participations: https://meet.google.com/efg-bcdp-jvd	
Chair: Çağlar Naci HIDIROĞLU	
Time	**Author(s)**	**Title**
10:20-10:40	Gülşah Gerrez CANTİMER Sare ŞENGÜL	The Investigation of SSCI Indexed Studies on Problem Posing in Terms of Affective Components
10:40-11:00	Büşra KIRAL Sare ŞENGÜL	Mathematical Reasoning and Proof in Fifth Grade Mathematics Textbook
11:00-11:20	Gülşah Gerez CANTİMER Sare ŞENGÜL	The Content Analysis of Concept Mapping Studies in Education: The Status of Concept Mapping Studies in Our Country in the Last 10 Years
11:20-11:40	Burcu PARLAK	Some Factors Affecting Mathematics Success with Problem Solving in Computer Based Assessment:TIMSS 2019
11:40-12:00	Özgenur YILMAZ Güler TULUK	Application of Virtual Manipulatives and Simulations to Mathematics Lesson Plans

PLENARY LECTURE
FATMA YILDIZ HALL Google Meet Link: https://meet.google.com/pcv-cpme-xac
Chair: Çağlar Naci HIDIROĞLU

13:30-14:20	**Invited Spiker:** Prof. Dr. Esra Bukova GÜZEL **"Mathematics Education, Daily Life and Modelling"**

	PLENARY LECTURE
	FATMA YILDIZ HALL Google Meet Link: https://meet.google.com/pcv-cpme-xac
	Chair: Hasan Hüseyin SAYAN
16:00-16:45	**Invited Spiker:** Assist. Prof. Dr. İbrahim ÇETİN **"Differences in the Way of Doing Maths from Past to Present"**

	PLENARY LECTURE
	HALL S1 Google Meet Link for Online Participations: https://meet.google.com/dpb-zphc-phm
	Chair: Ruslan Surmanidze
17:00-17:45	**Invited Spiker:** Prof. Dr. Malkhaz Bakuradze **"On addition formulas related to elliptic integrals"**

23 September 2022 Friday
SESSION IV / 14:30-15:50 (Time zone: UTC+3 / İstanbul)

HALL S1	Google Meet Link for Online Participations: https://meet.google.com/dpb-zphc-phm	
Chair: Amiran GOGATISHVILI		
Time	**Author(s)**	**Title**
14:30-14:50	Ainur TEMİRKHANOVA	Alternative criteria for boundedness of one class of matrix operators in weighted sequence spaces
14:50-15:10	Akbota ABYLAYEYA	Two-sided estimates of the norm of an operator with a logarithmic singularity for $p > q$
15:10-15:30	Amiran GOGATISHVILI Tuğçe Ünver YILDIZ	From Cesaro and Copson to Morrey
15:30-15:50	Muratbekov M.B. Muratbekov M.M.	Estimates of singular numbers (s-numbers) and eigenvalues of a mixed elliptic-hyperbolic type operator with parabolic degeneration

23 September 2022 Friday
SESSION IV / 14:30-15:50 (Time zone: UTC+3 / İstanbul)

HALL S2	Google Meet Link for Online Participations: https://meet.google.com/rfg-yfhs-evq	
Chair: Nurettin DOĞAN		
Time	**Author(s)**	**Title**
14:30-14:50	Dilek VAROL	A New Formula for the Operational Matrix of the Fractional Derivative of the Chebyshev Polynomials
14:50-15:10	Güner TOPCU Kemâl AYDIN	Some Properties of Matrix Family Which Consist of Convex Combinations
15:10-15:30	İlyas HAŞİMOĞLU	Asymptotics of the eigenvalues of a boundary value problem for the operator Schrödinger equation with a spectral parameter, which is included polynomially in the boundary condition
15:30-15:50	Güner TOPCU Kemâl AYDIN	Some Properties of Matrix Family Which Consist of Linear Combinations

HALL S3	Google Meet Link for Online Participations: https://meet.google.com/qtk-qsjz-pyv	
Chair: Serpil HALICI		
Time	**Author(s)**	**Title**
14:30-14:50	MERVE YAKAR Mustafa AŞCI	Bivariate Lucas Balancing Polynomials
14:50-15:10	UTKU PEHLİVAN	Permuting n- Derivations From Semilattices to Lattice
15:10-15:30	Şahin CERAN	Permuting n-(f,g)-Derivations on Lattices
15:30-15:50	Mustafa YILMAZ Mustafa ASCI	On Bivariate Gaussian Balancing Polynomials

23 September 2022 Friday
SESSION IV / 14:30-15:50 (Time zone: UTC+3 / İstanbul)

HALL S4	Google Meet Link for Online Participations: https://meet.google.com/efg-bcdp-jvd	
Chair: Cansel AYCAN		
Time	**Author(s)**	**Title**
14:30-14:50	Hatice ÇETİNKAYA Gülay KORU YÜCEKAYA	On Matrixes of Commutative Quaternions
14:50-15:10	Murat ALTUNBAŞ	Notes on Meta-Golden Riemannian Structures
15:10-15:30	Fadime ORMAN Gülay KORU YÜCEKAYA	On Algebra of Elliptical Quaternions
15:30-15:50	Erdem KOCAKUŞAKLI	Translating Solitons on Null Direction in Minkowski Space

24 September 2022 Saturday
SESSION V / 09:00-10:20 (Time zone: UTC+3 / İstanbul)

HALL S1	Google Meet Link for Online Participations: https://meet.google.com/bxg-ftpg-aki	
Chair: Murat BEŞENK		
Time	**Author(s)**	**Title**
09:00-09:20	Gülnaz Boruzanlı EKİNCİ	K1,1-Structure Connectivity of Generalized and Double Generalized Petersen Graphs
09:20-09:40	Kübra OYMAK Murat BEŞENK	Directed Orbital Triangle Graphs
09:40-10:00	Ali Gökhan ERTAŞ İbrahim GÜNALTILI	On Some Basic Properties Of Finite Graph
10:00-10:20	Ramazan SUNAR	On Projective Graphs

HALL S2	Google Meet Link for Online Participations: https://meet.google.com/gem-esjz-ywi	
Chair: Güllü Canan Hazar GÜLEÇ		
Time	**Author(s)**	**Title**
09:00-09:20	Ömer AKGÜLLER Mehmet Ali BALCI	Deep Learning Based Classification of Eigenworms with Gramian Angular Fields
09:20-09:40	Mustafa Hicret YAMAN Gamze YÜKSEL	Dynamic Mode Decomposition of Wake Flow
09:40-10:00	Ömer AKGÜLLER Mehmet Ali BALCI	Classification of 3D Point Clouds Using Graph Communities and Deep Learning
10:00-10:20	Deniz ELMACI Figen KANGALGİL	Stability Analysis of Prey – Predator System Involving Multiple Allee Effect

24 September 2022 Saturday
SESSION V / 09:00-10:20 (Timezone: UTC+3 / İstanbul)

HALL S3	Google Meet Link for Online Participations: https://meet.google.com/mwf-runm-vov	
Chair: Çağlar Naci HIDIROĞLU		
Time	**Author(s)**	**Title**
09:00-09:20	Serkan COŞTU Büşra YAŞAR Müjdat KARADAĞ Ceren ERCAN	The Effect of PASS Theory Activities Used in the Learning Environment on the Development of Number Sense: A Pilot Study
09:20-09:40	Hasan Yasin TOL Selin ÇENBERCİ	Attitudes and Views of Secondary School Students towards Problem Solving
09:40-10:00	Serkan COŞTU Lena LINDENSKOV	Predictors of Mathematics Learning Disability (Dyscalculia)
10:00-10:20	Yeliz Özkan HIDIROĞLU	Current Strategies for the Empowerment of Mathematics Teachers

HALL S4	Google Meet Link for Online Participations: https://meet.google.com/xhm-ccng-ngz	
Chair: Dilek VAROL		
Time	**Author(s)**	**Title**
09:00-09:20	Fatmagül SAKLAVACI	Figures Placed Between Geometric Patterns in Medieval Anatolian Turkish-Islamic Architecture
09:20-09:40	Gulseli BURAK	Some Properties of Metric in Digital Topology
09:40-10:00		
10:00-10:20		

HALL S5	Google Meet Link for Online Participations: **https://meet.google.com/hjw-hgsh-big**

Chair: Ainur TEMIRKHANOVA

Time	Author(s)	Title
09:00-09:20	Aliya Naaz SIDDIQUI	Inequalites on Riemannıan Warped Product Submersions for Vertical Casorati Curvatures
09:20-09:40	Siyat Nur NOYAN Ahmet Sinan ÇEVİK	Characterization of the Wreath Product $D_{2n}/\mathbb{Z}_2$ in Terms of p-Cockcroft Property
09:40-10:00	Péter NEGYESI	Adaptive technologies for 21st century mathematics education
10:00-10:20	Esengül YILDIZ	The Effect of Singapore Model and Worked-Out Examples Methods on Students' Success Level on Solving Word Problems Related to Numbers