

**TURKISH PHYSICAL SOCIETY 38th INTERNATIONAL PHYSICS
CONGRESS**

August 31 - September 4, 2022

BODRUM / TURKEY

Book of Programme

31 August 2022, WEDNESDAY

01-ATOMIC AND MOLECULAR PHYSICS

02-APPLIED PHYSICS

03-CONDENSED MATTER PHYSICS

04-ENERGY AND APPLICATIONS

05-HIGH ENERGY, PARTICLE AND PLASMA PHYSICS

06-MATERIAL SCIENCE AND APPLICATIONS

07-MATHEMATICAL PHYSICS, ASTROPHYSICS AND APPLICATIONS

08-MEDICAL PHYSICS AND APPLICATIONS

09-NUCLEAR PHYSICS

10-PHYSICS EDUCATION AND APPLICATIONS

31 AUGUST 2022, WEDNESDAY

MAIN HALL

Join Zoom Meeting

<https://zoom.us/j/91346346821?pwd=d1BUaXJlMlhPTE9jQ0hQNDI4bkozUT09>

Meeting ID: 913 4634 6821/Passcode: 961880

31 August 2022, Wednesday

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| <i>31 August 2022, Wednesday</i> | |
| 09:00 – 13:00 | OPENING CEREMONY |
| 13:00 – 14:30 | LUNCH |
| 14:30 – 16:00 | CHAIR |
| 14:30 – 15:15 | Serguei MOLODTSOV – Euro XFEL Topic of the talk: European X-ray Free Electron Laser (XFEL): Unique Facility for Numerous Applications |
| 15:15 – 16:00 | Erkcan Özcan – Boğaziçi University- TENMAK TENMAK from a Scholar Physicist's Perspective |
| 16:00 – 16:30 | COFFEE BREAK |
| 16:30 – 17:30 | POSTER SESSION POSTER SESSION (ON SITE) 01-PP: ATOMIC AND MOLECULAR PHYSICS Mert Arıkan Sinem Gürkan Aydın 02-PP: APPLIED PHYSICS Aylin Yalçın Sarıbey Çiğşe Oral Emirhan Aydın İnci Çapan Melda Patan Alper Rifat Çapan Şükrü Mert Ulusoy Mustafa Yılmaz Hakan Bozkurt Sevde Nur Koç Bilgin Keserci Emine Akpınar |

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|----------------------|---|
| | <p>Bilgin Keserci 03-PP: CONDENSED MATTER PHYSICS Mustafa Gençaslan Remziye Tülek Rıza Erdem Tuğçe Akkurt Yeliz Güleşçi Kartal Yasin Öztürk Zehra Kablan 05-HIGH ENERGY, PARTICLE AND PLASMA PHYSICS Ahmetcan Sansar Emine Akpınar</p> <p style="text-align: center;">POSTER SESSION (Online)</p> <p>02-PP: APPLIED PHYSICS 16:30-16:40 Hasipcan Aydın 16:40-16:50 Yusuf Cenk İltuş 16:50-17:00 Kadir Esmer 03-PP: CONDENSED MATTER PHYSICS 17:00-17:10 Erol Köse 05-HIGH ENERGY, PARTICLE AND PLASMA PHYSICS 17:10-17:20 Zakira Hashimi 17:20-17:30 Saliha Billur koca 06-MATERIAL SCIENCE AND APPLICATIONS 17:30-17:40 Emel Yıldırım 17:40-17:50 Emel Yıldırım</p> |
| 20.00 – 23.00 | <p style="text-align: center;">WELCOME PARTY</p> <p style="text-align: center;">LOCATION: BODRUM BARS STREET – TRAFİ</p> |

1SEPTEMBER 2022 THURSDAY

MAIN HALL

Join Zoom Meeting

<https://zoom.us/j/96159383003?pwd=OVV3UGEyYbDhIQzJxNGJyU1cva0ZWUT09>

Meeting ID: 961 5938 3003/Passcode: 924281

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| | <i>1 September 2022, Thursday</i> |
| 09:45 – 10:30 | CHAIR: |
| | Gregory SCHEHR – Sorbonne University Topic of the talk: Large deviations of the top eigenvalue of random matrices and applications in statistical physics |
| 10:30 – 11:15 | Serim İLDAY – Bilkent University Topic of the talk: The birth, life, and death of dissipative colloidal crystals |
| 11:15 – 11:45 | COFFEE BREAK |
| 11:45 – 12:30 | Roland NETZ – Freie University Topic of the talk: Protein folding rates are dictated by friction, not by free-energy barriers |
| 12:30 – 14:30 | 12:30 – 14:00 PANEL |
| | “ Science Technology and Industry Triangle for Solar Power Industry” Panelists: Selçuk YERCİ – GÜNAM Güven KORKMAZ – Kalyon Solar Halil DEMİRDAĞ – Smart Solar Ahmet ARAS – Mayor of Bodrum Moderator: Şener OKTİK – Kadir Has University, Honorary Chairman of GENSED |
| 14:30- 16:00 | 14:00 – 14:30 LUNCH |
| | CHAIR: |

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|----------------------|---|
| 14:30- 15:15 | A. Nihat BERKER – Kadir Has University Topic of the talk: Spin-Glass Chaos Fractal Spectrum Classification and Clustering of Music, Brain, and Covid Signals |
| 15:15 – 16:00 | Maria CHEKHOVA - Max Planck Institute Topic of the talk: Spontaneous parametric down-conversion at the nanoscale |
| 16:00 – 16:30 | COFFEE BREAK |
| 16:30- 17:30 | POSTER SESSION POSTER SESSION (ON SITE) 02-PP: APPLIED PHYSICS Büşranur Adalı Caner Baydur Osman Murat Şener Ömer Faruk Bakış Şehnaz Kanlı Ziya Çoban Ziya Çoban 06-MATERIAL SCIENCE AND APPLICATIONS Ali Murat Yeter Erman Çokduygulular Halime Tugay Hakan Bilal Özcan 07-MATHEMATICAL PHYSICS, ASTROPHYSICS AND APPLICATIONS Filiz Kahraman Alicavus Gizem Dilara Açı Yıldız Mehmet Baran Ökten 08-MEDICAL PHYSICS AND APPLICATIONS Ceren Yüksel Deniz Gökduman Osman Vefa Gül Ömer Gayso Shiva Mahmoudi Şevval yıldız Mustafa Yılmaz 09-NUCLEAR PHYSICS |

Derya Yılmaz Baysoy
Handan Yılmaz
Mustafa Yılmaz

POSTER SESSION (Online)

09-NUCLEAR PHYSICS

16:30-16:40 Pelin Otansev

16:40-16:50 Zehra Açıkğöz

2 SEPTEMBER 2022, FRIDAY

MAIN HALL

Join Zoom Meeting

<https://zoom.us/j/96831573048?pwd=NXRmc056bjk5c3g0WURndy9lN2lUdz09>

Meeting ID: 968 3157 3048/Passcode: 155359

| | <i>2 September 2022, Friday</i> |
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| 09:45 – 10:30 | CHAIR: |
| | Karl LUDWIG – Boston University Topic of the talk: Coherent X-ray Scattering as a New Tool for Study of Surface Growth and Patterning Dynamics |
| 10:30 – 11:15 | Gözde ÖZAYDIN İNCE – Sabancı University Topic of the talk: Tuning conformality in confined geometries during vapor phase deposition of polymer thin films |
| 11:15 – 11:45 | COFFEE BREAK |
| 11:45 – 12:30 | Serkan KASIRGA – UNAM, Bilkent University Topic of the talk: Correlation effects in low dimensional materials |
| 12:30 – 13:15 | Axel WINTER – Max Planck Institute Topic of the talk: Nuclear Fusion: An Energy Source for our future |
| 13:15 – 14:30 | LUNCH |
| 14:30- 16:00 | Contributed Talks PARALEL SESSION LOCATION: BODRUM ANATOLIAN HIGH SCHOOL |
| 16:00 – 16:30 | COFFEE BREAK |
| 16:30- 17:30 | Contributed Talks PARALEL SESSION LOCATION: BODRUM ANATOLIAN HIGH SCHOOL |

3 SEPTEMBER 2022, SATURDAY

MAIN HALL

Join Zoom Meeting

<https://zoom.us/j/98699550041?pwd=UjdDQlURThUYm5pY3EzQ1RpMEphZz09>

Meeting ID: 986 9955 0041/Passcode: 548860

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| | <i>3 September 2022, Saturday</i> |
| | CHAIR: |
| 09:45 – 10:30 | Nikolina ILIC - University of Toronto Topic of the talk: DUNE Construction and Physics Prospects |
| 10:30 – 11:15 | Hasan YILMAZ - Bilkent University Topic of the talk: Coherent wave transport in complex photonic media |
| 11:15 – 11:45 | COFFEE BREAK |
| 11:45 – 12:30 | Yavuz EKŞİ – Istanbul Technical University Topic of the talk: Fast Radio Bursts: a new astrophysical enigma |
| 12:30 – 13:15 | Gökhan ÜNEL – California University – Irvine Topic of the talk: Building low cost MeV level transportable accelerators |
| 13:15 – 14:30 | LUNCH |
| 14:30- 16:00 | Contributed Talks PARALEL SESSION LOCATION: BODRUM ANATOLIAN HIGH SCHOOL |
| 16:00 – 16:30 | COFFEE BREAK |
| 16:30- 17:30 | Contributed Talks PARALEL SESSION LOCATION: BODRUM ANATOLIAN HIGH SCHOOL |

**PARALEL SESSIONS
ON SITE PRESENTATIONS**

2 SEPTEMBER 2022, FRIDAY
HALL –1
ATOMIC AND MOLECULAR PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 16:30** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Behavior of Hydrogen/Halogen and Phicogen Bond Interactions in the Presence of External Electric Field in $\text{HCN}\cdots\text{HCN}\cdots\text{X}$ ($\text{X}=\text{F}_2, \text{PH}_3$) Complexes
Fatmagül Tunç
- 14:45 – 15: 00** Theoretical Photovoltaic Study of Organic Anthracene Sensitizers for Dye Sensitized Solar Cells (DSSC)
Bekir Yurdugüzel
- 15:00 – 15:15** Theoretical design of new anthracene-based organic dyes for DSSC applications. A DFT/TD-DFT study
Bekir Yurdugüzel
- 15:15 – 15:30** Analysis of dislocation densities in GaN/AlN based high electron mobility transistors
Özlem Bayal
- 15:30 – 15:45** Spectral Investigations of Selected Planetary Nebulae from Northern Hemisphere
Utkan temiz
- 15:45 – 16:00** Diffusion Process of Organic Compounds into UiO-66-NH₂@PMMA Thin Film Structure
Cansu Özkaya Erdoğan
- 16:00 – 16:15** The effect of crosslinking time on mechanical properties of clinoptilolite-sodium alginate films
Altan Bozdoğan
- 16:15 – 16:30** Study of a charged particle confined by a magnetic monopole and an Aharonov-Bohm field under a noncentral potential
Aybike Bağcıvan

2 SEPTEMBER 2022, FRIDAY
HALL – 2
APPLIED PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 17:00** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Simulation of Isotope Separation and Fuel Enrichment Process in Gas Centrifuge Device
Mustafa Yılmaz
- 14:45 – 15:00** Comparison of Calibration Systems for Clinical Type Thermometers
Melda Patan Alper
- 15:00 – 15:15** Investigation of Self-Collimation Properties with a Variation of the Placement of Auxiliary Rods in the Photonic Crystal
Zekeriya Mehmet Yuksel
- 15:15 – 15:30** The effect of laser wavelength and concentration on the optical limiting response of liquid MOS₂ and WS₂ dispersion as saturable absorber (SA).
Mesadet Asuman Sınmaz Durmuş
- 15:30 – 15:45** Obvious Independence of Clones for Voting Rules
Ratip Emin Berker
- 15:45 – 16:00** Low Symmetry Photonic Crystal Cavity Slow Light Properties
Hasan Oguz
- 16:00 – 16:15** Ultra-thin acoustic metasurface capable of frequency shift for tunable sound absorption
Caner Baydur
- 16:15 – 16:30** Nanotechnological Solutions for the Aviation Industry
Yusuf özpolat
- 16:30 – 16:45** Darwinian competition in Nonlinear Laser Lithography
Abdullah Bin Aamir
- 16:45 – 17:00** Computational Modelling of C-Band Magnetrons
Oğuz Koçer

2 SEPTEMBER 2022, FRIDAY
HALL – 3
CONDENSED MATTER PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 17:45** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Synthesis and characterization of some C-Ti based multilayer and composite nanostructures
Victor Ciupina
- 14:45 – 15:00** Antiferromagnetic spin-1 XYZ model with the Dzyaloshinskii–Moriya interaction
Erhan Albayrak
- 15:00 – 15:15** The spin-1 XYZ model with Dzyaloshinskii–Moriya interaction
Erhan Albayrak
- 15:15 – 15:30** Effects of different beta dose on the TL glow curves of the crystals naturally grown on rock
Hüseyin Toktamış
- 15:30 – 15:45** Mixed Spin-1/2 and 5/2 Blume-Capel Model on the Bethe Lattice in the $\pm J$ Distribution with an Adjusting Parameter
Fatma Şendil Özcan
- 15:45 – 16:00** Investigation of Structural and Electrochemical Properties of Electrospun Modified PAN-Porphyrin Nanofiber Electrodes
Umut Güzel
- 16:00 – 16:15** The Variation of Kinetic Parameters of Silicate-Based Spongy Mineral under Different Radiation Doses
Dilek Toktamış
- 16:15 – 16:30** Comparison of Structural, Optical and Electrical Properties of V₂O₅ and %2 Zn Doped V₂O₅ Films
Erol Köse
- 16:30 – 16:45** Physical Properties and Superconductivity of Ta₃Sb: An Ab-initio Study
Fatih Kurtuluş
- 16:45 – 17:00** The Structural, Elastic and Electronic Properties of Nb₃X (X:Ir, Pt, Rh)
Fatih Kurtuluş

- 17:00 – 17:15** Ultra-sensitive gas sensor based fano resonance modes in periodic and fibonacci quasi-periodic Pt/PtS₂ structures
Shrouk Eid Zaki Ahmed
- 17:15 – 17:30** Investigation of microstructure, superconducting properties and pinning mechanism of nano-sized Al doped MgB₂ samples
Hasan Durmuş
- 17:30 – 17:45** The Water Adsorption Properties of α -Boron (111) Surfaces: A Dft Study
Esra Erođlu

2 SEPTEMBER 2022, FRIDAY
HALL 4
MATERIAL SCIENCE AND APPLICATIONS
ON SITE PRESENTATIONS

- 14:30 – 17:15** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Study of structural properties of Ni electrodeposited film
Ayesha Mubshrah
- 14:45 – 15:00** Investigation of Cross-Linking Effect and Determination of Stotoxicity of Pva/Cmc Composites
Barkın Özer
- 15:00 – 15:15** Investigation of Some Thermal Properties of Iron and Chromium Nanowires
Hatice Zor Oğuz
- 15:15 – 15:30** Mechanical Properties of Carbon Nano-Springs: Molecular Dynamics Simulation
Hatice Zor Oğuz
- 15:30 – 15:45** Surface Profile Determination by Gabor Wavelet: A Simulation Study
Semanur Selamet
- 15:45 – 16:00** Growth and characterization of Bi₂Sr₂CaCu₂O_{8+x} superconducting films by liquid phase epitaxy
Ara Rahimpour
- 16:00 – 16:15** Boron Doped Cuprous Oxide Thin Fims: Morphological and Optical Properties
Hakan Bilal Özcan
- 16:15 – 16:30** Spray deposited ZMO thin films: As a buffer layer candidate in TFSCs
Emrah Sarıca
- 16:30 – 16:45** Structural and Morphological Properties of SnO₂ Thin Films:Effect of Film Thickness
Emrah Sarıca
- 16:45 – 17:00** Design of One-Dimension Photonic Crystal-Based Biosensor Working in Visible Region for Non-Invasive Detection of Various Cancer and Blood Cells
Çağlar Çetinkaya

2 SEPTEMBER 2022, FRIDAY
HALL – 5
MATHEMATICAL PHYSICS, ASTROPHYSICS AND APPLICATIONS
ON SITE PRESENTATIONS

- 14:30 – 16:45** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Evolutionary Status of Some Pulsating Eclipsing Binaries
Fahri Aliçavuş
- 14:45 – 15: 00** Study of pulsational variability and spectroscopy of some TESS CP stars
Filiz Kahraman Alicavus
- 15:00 – 15:15** Connections Between Teleparallelism and Dark Fluid in Modified Gravity
Yavuz Can Gençel
- 15:15 – 15:30** Tracy-Widom distribution in temporal fluctuations of interface heights from a modified version of KPZ equation
Xhulian Lickollari
- 15:30 – 15:45** State Space Analysis of FRW Universe With Modified Chaplygin Gas
Ali Osman Yılmaz
- 15:45 – 16:00** Limitation of Infrared Fixed Point Swiss-Cheese Cosmology Through Cosmic Expansion
Batuhan Çil
- 16:00 – 16:15** Eastern Anadolu Observatory (DAG) Site and Atmospheric Structure
Funda Yüzlükoğlu
- 16:15 – 16:30** Anisotropic Stellar Model in Modified Gravity Under the Karmakar Condition
Gizem Dilara Açan Yıldız
- 16:30 – 16:45** Barrow Holographic Dark Energy (HDE) Under Purview of Bulk Viscosity
Yavuz Selim Gökduman

2 SEPTEMBER 2022, FRIDAY
HALL – 5
ENERGY AND APPLICATIONS
ON SITE PRESENTATIONS

16:45 – 17:15 **CHAIR: TPS-38 ORGANIZING COMMITTEE:**

16:45 – 17:00 Long-distance Wireless Energy Transmission by Holographically Generated
Laser Beams Modes
Fatih Sönmez

17:00 – 17:15 Estimation of Global Warming Potential of Livestock Sector: The Case of
Burdur, Turkey
Onur İNAN

2 SEPTEMBER 2022, FRIDAY
HALL - 6
MEDICAL PHYSICS AND APPLICATIONS
ON SITE PRESENTATIONS

- 15:30 – 16:30** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Image Blurring Measurement Methods in Hyperpolarized Xenon-129
Magnetic Resonance Imaging
Özgün Boray YURDAKOŞ
- 14:45 – 15:00** Comparison Of Standard And Multi-Compartment Dosimetry Methods In
Transarterial Radioembolization Treatment With Y-90
Bilal Kovan
- 15:00 – 15:15** Determining The Number Of Images In Radionuclide Therapy Dosimetry
Bilal Kovan
- 15:15 – 15:30** Modelling Various Molecular Imaging Systems in GATE Simulation
Nuray Yavuzkanat
- 15:30 – 15:45** PET/BT Performans Değerlendirmeleri: NEMA NU2-2012 Standartları ile
AAPM Standartlarının Karşılaştırılması
Sinem Akyol
- 15:45 – 16:00** Comparison of PVA, CMC and PEG Gel Matrices with Gelatin in Polymer
Gel Dosimeter
Türkan Alkan
- 16:00 – 16:15** A Feasibility Study for Development of Portable NMR System
Mine Akboğa
- 16:15 – 16:30** Changes in Pulmonary Airway in Chest CT Images of Post-acute COVID-19
Syndrome - Pilot Study
Nur Ekenel

2 SEPTEMBER 2022, FRIDAY
HALL 7
NUCLEAR PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 16:45** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Description of Even-Even Cadmium Isotopes Within the Interacting Boson Model-1
Mahmut Büyükata
- 14:45 – 15: 00** Coalescence of nucleons in heavy ion collisions at high energies
Nihal Büyükçizmeci
- 15:00 – 15:15** Determination of Concentrations of Non-Volatile Elements In Fly Ash Released From Coal Combustion Using EDXRF
Aybaba Hançerlioğulları
- 15:15 – 15:30** Investigation of Nuclear Chart in Stellar Matter
Ayşegül Kaya
- 15:30 – 15:45** Radiometric Analysis in the Soils Around the Fertilizer Factory
Aydan Altıkulaç
- 15:45 – 16:00** Quasiprojectile Formation In Peripheral Heavy-Ion Collisions
Hamide Avcı
- 16:00 – 16:15** Gamma and Neutron Dose Mapping of the Non-destructive online Analysis System in the Operator's Workspace
Handan Yılmaz
- 16:15 – 16:30** IRL Radon Monitoring Network
Abbas Alpaslan KOÇER
- 16:30– 16:45** Production of Medical Radium-223 Via Nuclear Reactions
Ozan Artun

2 SEPTEMBER 2022, FRIDAY
HALL 7
PHYSICS EDUCATION AND APPLICATIONS
ON SITE PRESENTATIONS

- 16:45 – 17:45** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 16:45 – 17:00** Development of Virtual Reality Simulations of Basic Physics Experiments to Support Future Teachers in Education: The Case of Mechanics Experiments
Bakytzhan Kurbanbekov
- 17:00 – 17:15** Development of Virtual Reality Simulations of Basic Physics Experiments to Support Future Teachers in Education: The Case of Modern Physics
Meirambek Berkinbayev
- 17:15 – 17:30** A Pioneering Name in the History of Turkish Science in the Republican Era:
Yakup Elbek
Sabiha Tunçel Güçtekin
- 17:30 – 17:45** Metaphoric Perceptions of University Students on Physics, Quantum and Metaverse Concepts
Eda Nur Koza

3 SEPTEMBER 2022, SATURDAY
HALL –1
ATOMIC AND MOLECULAR PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 15:45** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** A Calculation for Hydrogen Like Mendelevium
Güldem Ürer Özbilen
- 14:45 – 15: 00** Energy Levels, Lifetimes, and Electric Dipole Transitions for Triply Ionized
Thorium (Th IV)
Güldem Ürer Özbilen
- 15:00 – 15:15** Some Transition Parameters for Hydrogen Like Mendelevium
Güldem Ürer Özbilen
- 15:15 – 15:30** HCP GOLD-RUTHENIUM (Au-Ru) Nanoparticles By Molecular Dynamics
Simulations
Mehmet Yılmaz
- 15:30 – 15:45** Following electron impact excitation of single ^{48}Cd , ^{49}In , ^{50}Sn , ^{51}Sb , ^{52}Te ,
 ^{53}I atoms L subshells ionization cross sections by using Lotz's equations
Mahmut Aydınol

3 SEPTEMBER 2022, SATURDAY
HALL – 2
APPLIED PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 16:30** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Determination of Biogas Potential of Lakes Region, Turkey
Onur İnan
- 14:45 – 15:00** Behaviour of regular ocean waves interacting with diverse obstacles
Burcu Özselek
- 15:00 – 15:15** Evolution of Nonlinear Feedback-driven Self-organising Systems
Özgün Yavuz
- 15:15 – 15:30** Statistical Analysis of the Atmosphere of Astronomical Observatories Using Satellite Images
Zühal kurt
- 15:30 – 15:45** Effect of Gamma Irradiation on Conductivity of Cd_{1-x}FexTe
Zarifa Ahmadzada
- 15:45 – 16:00** Investigation of Organic Field Effect Transistors with Interdigitated ITO Source and Drain Contacts Fabricated by Laser Cut Vinyl Tapes
Hakan Bozkurt
- 16:00 – 16:15** Third Generation Light Source Based Element-Specific X-ray Spectroscopy Techniques
Didem Ketenoğlu
- 16:15 – 16:30** Anodic Bonding: A Hermetic Sealing Between Glass and Silicon
Didem Ketenoğlu

3 SEPTEMBER 2022, SATURDAY
HALL – 3
CONDENSED MATTER PHYSICS
ON SITE PRESENTATIONS

- 14:30 – 15:30** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 14:30 – 14:45** Feedback and reactive flow effects on living crystal formation
Gürsoy Akgüç
- 14:45 – 15:00** Production and Determination of Density of Interface States of flexible
Al/Al₂O₃/ZnSe:Al (MOS) Device
Murat Çalışkan
- 15:00 – 15:15** The Effect on AlN Film of Face-to-Face Annealed Nucleation Layer AlN
with RTA and MOVPE
Merve Nur Koçak
- 15:15 – 15:30** PALE AlN grown on Sapphire by MOVPE: Effect of NH₃ Flow Rate
Gamze Yolcu

3 SEPTEMBER 2022, SATUDAY
HALL – 3
HIGH ENERGY, PARTICLE AND PLASMA PHYSICS
ON SITE PRESENTATIONS

- 15:30 – 16:45** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 15:30– 15:45** Physics-focused HEP data analysis with ADL/CutLang
Gökhan Ünel
- 15:45 – 16:00** July 16, 2017 Ionospheric Storms Formed in the Geomagnetic Storm Process
Ceren Bayhan
- 16:00 – 16:15** Cold Plasma Production with DBD Parallel Plate Method
Zeki Getizmen
- 16:15 – 16:30** Nonlinear Effects of Solar Eclipses on the Ionospheric F2 Region
Mehmet Baran Ökten
- 16:30 – 16:45** Effects of micron-precise pole tuning on phase jitter and end kick profiles for
hybrid X-ray undulators
Bora Ketenoğlu

**PARALEL SESSIONS
ONLINE PRESENTATIONS**

4 SEPTEMBER 2022, SUNDAY
HALL – 1
ATOMIC AND MOLECULAR PHYSICS
ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/96010469274?pwd=TWf1THJKenp0WmFKNWs5aHFLOWtZQT09>

Meeting ID: 960 1046 9274/Passcode: 640289

- 09:45 – 19:00** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 09:45 – 10:00** Structural, Spectroscopic (FT-IR, ¹H And ¹³C NMR), Electronic And Molecular Docking Investigations Of A New Valproic Aminophenol Amide Derivative As Potent Histone Deacetylase Inhibitor And Antitumor Agent
Tugba Göcen
- 10:00 – 10:15** Photovoltaic Properties of BODIPY Based Dye Derivatives Containing Tetrazol Functional Group
Burcu Ortatepe
- 10:15 – 10:30** Structural, Electronic and Spectroscopic Properties of Some Tetrazole Anchored Organic BODIPY Derivatives That Can Be Used In Dye-Sensitized Solar Cells
Burcu Ortatepe
- 10:30 – 10:45** Temperature Dependent Structure of Intermolecular Interaction Network In Liquid Formamide
Abdullah Özkanlar
- 10:45 – 11:00** Role of Spin Transitions on the Binding Rate of Peroxynitrite [OONO⁻] to Iron (III) 5, 10, 15, 20 -Tetrakis (N-Methyl-4-Pyridyl) Porphyrin [Fe(III)TMPyP]
Abdullah Özkanlar
- 11:00 – 11:15** Radiation Shielding Properties of High Temperature Superconductors added SnIn solders
Canan Aksoy
- 11:15 – 11:30** Characterization of silicon photomultiplier (SiPM) by pulsed lasers as a detector for space applications
Abdullah Kepceoğlu

- 11:30 – 11:45** Ion trajectory and spectrometer mass resolution simulation study of the linear and reflectron time-of-flight mass spectrometer systems
Abdullah Kepceoğlu
- 11:45 – 12:00** Theoretical investigation of the molecular properties of the fluoroaniline isomers
Abdullah Kepceoğlu
- 12:00 – 12:15** Analysis of the structural and vibrational spectral data of anticancer drug flutamide on the basis of the DFT and Hartree-Fock Calculations
Cansu Arman
- 12:15 – 12:30** Green's Function Formalism of nth Order Time-Dependent Perturbation Theory with Improved Accuracy for High-order Harmonic Generation Simulations
Gökhan İlhan
- 12:30 – 14:30** **LUNCH**
- 14: 30 – 14:45** Possible radicals of metformin molecule used in the treatment of diabetes: DFT study
Halil Uğur Taşdemir
- 14:45 – 15: 00** Effect of Fiber Coiling Geometry on Higher-Order Mode Suppression in High Power Fiber Amplifiers
Salih Kagan Kalyoncu
- 15:00 – 15:15** Prediction of Lattice Thermal Conductivities of Monolayer Group-III Monochalcogenides by Non-Equilibrium Classical Molecular Dynamics Simulations
Yenal Karaaslan
- 15:15 – 15:30** Solvatochromism of Schiff bases
Yadigar Gülseven Sıdır
- 15:30 – 15:45** Solvatochromism, optoelectronic properties and electronic structure of 4-Pentylphenyl derivatives: both experimental and DFT study
Yadigar Gülseven Sıdır
- 15:45 – 16:00** Applicability and Effectiveness of Bessel Type Orbitals with Nonintegral Orders to Calculation of Isoelectronic Series of He Atom
Meral Coşkun

- 16:00 – 16:15** Calculation of the binding and first ionization energies by the use of Non-Integer Slater Type Orbitals with modified double hyperbolic cosine functions
Meral Coşkun
- 16:15 – 16:30** Transient Absorption Spectrum Simulation with QM/MM MD methods under Explicit Polar Solvent using the recent COBRAMM scripts
Çağlar Karaca
- 16:30 – 16:45** Calculation of Basic Molecular Integrals in Momentum Space Using Symmetry and Recurrence Relations
Selda Özay
- 16:45 – 17:00** Mitotane with B-DNA and $\alpha 5\beta 1$ integrin: a molecular docking study
Tuğçe Sinem Öktemer
- 17:00 – 17:15** The Molecular Docking Study of Lapachol into DNA and $\alpha 11\beta 3$ Integrin
İlora Gıcır
- 17:15 – 17:30** Investigation of Coherent and Incoherent Intensity Ratio of Some 4d Transition Metals Depending on the Temperature
Nursel Kahraman
- 17:30 – 17:45** Importance of Spectral Line Classification-The Case of Sc
Taha Yusuf Kebapçı
- 17:45 – 18:00** DFT calculations on structural, spectroscopic and non-linear optical parameters of Diiodobis(2-aminopyridine)Cadmium(II)
Özgen ÖZGE
- 18:00 – 18:15** Modulating the temporal dynamics of nonlinear ultrafast plasmon resonance
Hıra Asif
- 18:15 – 18:30** A Theoretical Study on Photovoltaic Properties of Some Imine Derived Organic Dyes with Tetrazol, Catechol and Nitrile Anchors
Melike Ayaz
- 18:30 – 18:45** Spectroscopic and Non-Linear Optical Properties of Some Imine Derivatives of Organic Dyes That Can Be Used in Dye Sensitive Solar Cells
Melike Ayaz
- 18:45 – 19:00** Molecular Properties and Vibrational Spectra of Polymethylmethacrylate Molecule
Seda Hekim

4 SEPTEMBER 2022, SUNDAY

HALL – 2

APPLIED PHYSICS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/93213796969?pwd=cmZFbWRrTk1kYmIPSONvUzFNNEpCUT09>

Meeting ID: 932 1379 6969/Passcode: 554165

- 09:45 – 16:30** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 09:45 – 10:00** Joining of the bulk Y123 superconductors by Welding Method
Bakiye Çakır
- 10:00 – 10:15** Voltage control of magnetism with Piezoelectric Substrates in a Trilayer Systems
Erdem DEMİRCİ
- 10:15 – 10:30** Extraordinary oscillations of AMR ratios with the variation of non-magnetic layer thickness in magnetoresistive sensors
Mustafa Öztürk
- 10:30 – 10:45** Investigation of Radiation-heat conversion efficiency for Absorbers Made by Different Materials in Parabolic Solar Collectors
Sedat AVCI
- 10:45 – 11:00** The Effect of Production Method of Solder Material on Activation Energy of Welded YBCO
Şeyda Duman
- 11:00 – 11:15** The Influence of Cu Concentration on Structural, Optical and Electrical Properties of TiO₂
Alper Çetinel
- 11:15 – 11:30** The influence of polymer on lyotropic nematic calamitic- hexagonal phase transition
Özgür Masalçı
- 11:30 – 11:45** Systematic Study of LED Stimulated Recovery of Radiation Damage in Optical Materials
Kutlu Kağan Şahbaz

- 11:45 – 12:00** Rotational Unbalance Checking of Mechanical Gyroscope Via Self-Mixing Interferometry
Mert KILTAR
- 12:00 – 12:15** Advanced Glass Cladding Technology for Multi-kW SM Fiber MOPA
Büşra Mete
- 12:15 – 12:30** Density functional theory investigation of Pr adsorption on the anatase TiO₂ (101) surface for photovoltaic applications
Çağıl Kaderoğlu
- 12:30 – 14:30** **LUNCH**
- 14: 30 – 14:45** Physical, Structural and Thermal Properties of SrO Doped Silicate-Phosphate Glasses
Müge Şengül
- 14:45 – 15: 00** Dual-beam Intracavity Optical Tweezers with Backward Pumping Configuration
Aysu Ay
- 15:00 – 15:15** Electrical Characterization of Polyimide in a GEM Detector
Sedat Arı
- 15:15 – 15:30** Measuring the Size of Ionic Clusters Formed in Argon-Carbon Dioxide Gas Mixture in Gaseous Particle Detectors
Sedat Arı
- 15:30 – 15:45** Optical Chopper Effect on the Quantum Random Number Generator Setup
Burcu Yerli
- 15:45 – 16:00** The Application of Artificial Neural Networks to the NAF Seismicity Time Series
Aslan Saları
- 16:00 – 16:15** Fabrication and Characterization of X ray Detectors Based on Organic Semiconductor
Sadullah Öztürk
- 16:15 – 16:30** A Simulation Study With Paul Wavelet for Thin Film Surface Profile Analysis
Merve Uyanık

4 SEPTEMBER 2022, SUNDAY

HALL – 3

CONDENSED MATTER PHYSICS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/91277551109?pwd=ZkUyTEtTeVBoU2toZXZaVXhyZFpWQT09>

Meeting ID: 912 7755 1109/Passcode: 797827

- 09:45 – 17:15** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 09:45 – 10:00** Effect of Temperature and Hydrostatic Pressure on the Optical Absorption Coefficients and Refractive Index Changes in Quantum Ring
Aysevil Salman Durmuşlar
- 10:00 – 10:15** Influence of Size, Temperature and Hydrostatic Pressure on the Intersubband Optical Absorption Coefficients and Refractive Index Changes of a Single V-Shaped Quantum Well
Aysevil Salman Durmuşlar
- 10:15 – 10:30** A Computational Study Based on DFT, On Electronic and Elastic Properties of A-Type Antiferromagnetic Ga₄Sb₃Mn
Aytaç Erkişi
- 10:30 – 10:45** Pre-Epitaxy Design of Semiconductor Disk Lasers Emitting at 1030 nm
Behçet Özgür Alaydin
- 10:45 – 11:00** Second Harmonic Generation in GaAs/GaAlAs Double Quantum Wells Under Applied External Field
Behçet Özgür Alaydin
- 11:00 – 11:15** Dynamic Viscosity Modeling for Dialkyl Carbonates, Two Polyethers, and an Ester in Respect of Nanoscopic Free Volume Fraction
Fatma Dinç
- 11:15 – 11:30** Effects of an ionized donor impurity on excitonic transition spectrum lines in a GaAs/Al_xGa_{1-x}As/GaAs/Al_yGa_{1-y}As multi-shell quantum dot
Ahmet Emre Kavruk
- 11:30 – 11:45** Application of Kubelka method for AlInN/AlN HEMT structure
Ahmet Kürşat Bilgili

- 11:45 – 12:00** A DFT investigation on the structural, mechanical, lattice dynamical and thermal properties of Nodal Line Semimetal CaAgX (X:AS,P)
Bahadır Salmankurt
- 12:00 – 12:15** Effects of vacancy and doping atom on different size of h-BN monolayer: A Dft Study
Bahadır Salmankurt
- 12:15 – 12:30** Fabrication and characterization of silver nanoparticles at room temperature using inula viscosa plant extract by green synthesis method
Esra Zeybekođlu Okka
- 12:30 – 14:30** **LUNCH**
- 14: 30 – 14:45** Optical and Electrochemical Studies of Li₄Ti₅O₁₂ Thin Films Grown By Rf Magnetron Sputtering
Seçil Söyleriz
- 14:45 – 15: 00** Calculating of pressure dependent isothermal compressibility in Formamidinium Manganese-Hypophosphite Hybrid Perovskite
Sedat Avcı
- 15:00 – 15:15** Optical Properties of Sb Doped ZnO Thin Films
Sibel Gürakar
- 15:15 – 15:30** Structural, Electronic and Superconducting Properties of WRuP
Israa Al-Chalabi
- 15:30 – 15:45** Dopamine Adsorption on b-ASP Surface as a Biosensor: A Dft Study
Pınar Kaya
- 15:45 – 16:00** Calculation of Dielectric Sensitivity and Relaxation Time in Ethylammonium-Sodium-Chrome-Formate by Using Landau Mean Field Model
Sinan Aksoy
- 16:00 – 16:15** Tuning of Stokes-Shifted Raman Modes via TiN-Graphene Coupled Plasmonic System
Taner Tarık Aytas
- 16:15 – 16:30** Investigation of Optical and Electrochemical Properties of Graphene Layers Synthesized by Chemical Vapor Deposition
Aybüke Senbani

- 16:30 – 16:45** Molecular Junction Conductance of Organic Molecules: from Naphthacene to Rubrene
Cihat Gülyüz
- 16:45 – 17:00** Study of electronic, structural and magnetic propertites of Ru₂IrPb compound
Irmak Balmumcu
- 17:00 – 17:15** Structural, Electronic, Half-Metallic and Magnetic properties of Hf₂RhGa Full-Heusler Compound via Ab-Initio Method
Irmak Balmumcu

4 SEPTEMBER 2022, SUNDAY

HALL – 4

HIGH ENERGY, PARTICLE AND PLASMA PHYSICS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/93496437897?pwd=VUkvSnNkVhlnk9sYmxvUndXYncxdz09>

Meeting ID: 934 9643 7897/Passcode: 143719

- 09:45 – 15:00 CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 09:45 – 10:00** Decays of the SM-like Higgs boson into pair of gluons and $Z\gamma$ in 3-Higgs doublet models
Emine YILDIRIM
- 10:00 – 10:15** Entropy in Born Infeld Gravity
Gokcen Deniz Alici
- 10:15 – 10:30** Measurement of Helium Flux and Variability in Low Earth Orbit With the Alpha Magnetic Spectrometer
Gülce Karagöz
- 10:30 – 10:45** New Physics Study Beyond The Standard Model At The Muon Collider
Serdar Spor
- 10:45 – 11:00** The Software ALOHEP v3.0
Arif Öztürk
- 11:00 – 11:15** A Study on the Generalized Fermionic Model
Aslan Saları
- 11:15 – 11:30** Non equilibrium effect in gaseous detectors
Ibrahim A M ALSAMAK
- 11:30 – 11:45** Mixture Concentration and Pressure Dependence of the Maximum Achievable Gas Gains
Yasemi Nurbanu KAYA
- 11:45 – 12:00** Investigation of Ionospheric TEC Changes over the Aegean Region
Ömer Faruk Aydın
- 12:00 – 12:15** A search for the first and second family related vector-like leptons at future lepton colliders
Feyza Başpehlivan

- 12:15 – 12:30** Heavy spin partners of the $Z_b(10610)$ and $Z_b(10650)$ with an alternative approach to the Breit-Wigner parametrization
Duygu Yıldırım
- 12:30 – 14:30** LUNCH
- 14: 30 – 14:45** Deep Learning Approach for Dielectron Determination at the LHC
Serpil Yalçın Kuzu
- 14:45 – 15:00** Development of Hybrid Resistive Plate Chambers
Mehmet Tosun

4 SEPTEMBER 2022, SUNDAY

HALL 4

MEDICAL PHYSICS AND APPLICATIONS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/93496437897?pwd=VUkvSnpNdVhInk9sYmxvUndXYncxdz09>

Meeting ID: 934 9643 7897/Passcode: 143719

- 15:00 – 17:15** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 15:00 – 15:15** Spectral effect of changes in the amount of some natural urine components
Neslihan Sarıgül
- 15:15 – 15:30** ATR-FTIR potential in Autism Spectrum Disorder screening using urine samples
Neslihan Sarıgül
- 15:30 – 15:45** Simulation Methods in External Radiotherapy and Treatment Planning in Head and Neck Patients
Dicle Adıgüzel
- 15:45 – 16:00** Calculating COVID-19 Pneumonia-Related Changes in Pulmonary Parenchyma of CT Lung Images using pixel-by-pixel analysis
Elif Soya
- 16:00 – 16:15** Evaluation of the Effect of the Number of Materials in the CT-Based Phantom Used in the Patient-Specific Quality Assurance with the EGSnrc Monte Carlo Simulation of the Lung Patient
Esin Gündem
- 16:15 – 16:30** Main Pulmonary Vessel Segmentation from Thorax CT images
Gökçe Tanyan
- 16:30 – 16:45** Prototype of a Batch-mode Xenon-129 Hyperpolarizer
Yenal Gökpek
- 16:45 – 17:00** A Line Scanner Based Rontgen System for Full Body Imaging
Asuman Kolbaşı
- 17:00 – 17:15** Theoretical Investigation of Favipiravir Drug by Using Density Functional Theory with PBE Set
Ali Özkurt

17:15 – 17:30 Dosimetric Evaluation and Quality Assurance of Radiosurgery Treatments of Brain Metastases with Tomotherapy Device
Esra Çankaya Ayık

4 SEPTEMBER 2022, SUNDAY

HALL – 5

MATERIAL SCIENCE AND APPLICATIONS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/97940765678?pwd=cjVxWTVmb3V3UVRWcXVLMXFZSng2UT09>

Meeting ID: 979 4076 5678/Passcode: 062882

- 09:45 – 12:15** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 09:45 – 10:00** Coupling solvothermal synthesis and pyrolysis processes to produce microporous heteroatom doped carbons from a simple organic molecule for CO₂ capture
Ali Can Zaman
- 10:00 – 10:15** A molecular dynamics study on helix-type nanostructure by using Born-Mayer-Huggins potential
Ebru Tanboğa Korkmaz
- 10:15 – 10:30** Synthesis and Characterization of Low Silica Zeolites from Low-grade Kaolin Using the Hydrothermal Method: With Electromagnetic Application Approach
Mahboobeh Ejtemaei
- 10:30 – 10:45** High Efficiency UV Photodetectors Based Ultrathin Molybdenum Oxide Film Using Atomic Layer Deposition System
Mohamed Ali Basyooni Mohamed
- 10:45 – 11:00** New Ternary Cu-Al-V High Temperature Shape Memory Alloys (HTSMAs)
Pshdar Ahmed Ibrahim Ibrahim
- 11:00 – 11:15** Molecular Modeling and Molecular Docking Study of 5(4-Hydroxyphenyl)-2-(N-Phenylamino)-1,3,4-Oxadiazole
İrem Balıkçı
- 11:15 – 11:30** Development of Anode Materials for Li-S Batteries by Using Two-Dimensional Carbon-Based Grapheny Structure
Fuat Bilican
- 11:30 – 11:45** Synthesis and Characterization of Composite Materials Based on La_{0.1}Sr_{0.45}Ba_{0.45}CoO₃ and NiO as Electrocatalyst for Hydrogen Evolution Reaction
Elham Mahmoudi

- 11:45 – 12:00** Development of metal-oxide nanostructures to enhance infrared radiation absorption
Mehmet Fatih Yaman
- 12:00-12:15** Thermal and Structural Effect of Ti Additive in High Temperature Cu-Al-Ti Shape Memory Alloys
Sivar Aziz BAIZ

4 SEPTEMBER 2022, SUNDAY
HALL 5
NUCLEAR PHYSICS
ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/97940765678?pwd=cjVxWTVmb3V3UVRWcXVlMXFZSng2UT09>

Meeting ID: 979 4076 5678/Passcode: 062882

12:15 – 13:15 CHAIR: TPS-38 ORGANIZING COMMITTEE:

12:15– 12:30 Albedo numbers of Cu₆₉Zn₃₇ alloy etched by hydrofluoric acid
Sedanur Kalecik

12:30 – 12:45 Low-Lying Electric and Magnetic Dipole Response of the ¹⁴³Nd*
Gamze Hoşgör

12:45 – 13:00 Low-Energy Electric Dipole Strength in the ²⁴¹Pu
Elif Kemah

13:00 – 13:15 $\pi=1$ - dipole strengths in deformed Hf-170 nuclei
Esranur Yalçınkaya

4 SEPTEMBER 2022, SUNDAY
HALL 5

PHYSICS EDUCATION AND APPLICATIONS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/97940765678?pwd=cjVxWTVmb3V3UVRWcXVlMXFZSng2UT09>

Meeting ID: 979 4076 5678/Passcode: 062882

13:15– 13:45 CHAIR: TPS-38 ORGANIZING COMMITTEE:

13:15 – 13:30 Detection of magnetic pole intensities with artificial intelligence
Ali Gültekin

13:30 – 13:45 Measuring the Humidity Amount, Ambient Temperature, Sensed Temperature in Celsius and Fahrenheit with Arduino and Dht11 Temperature Sensor and Displaying it on the Nokia 5110 Screen and Comparing it with the Simulation Program
Ali Gültekin

4 SEPTEMBER 2022, SUNDAY

HALL 6

MATHEMATICAL PHYSICS, ASTROPHYSICS AND APPLICATIONS

ONLINE PRESENTATIONS

Join Zoom Meeting

<https://zoom.us/j/97384318343?pwd=V0VVK1R6YmxYKzd0UGRyQ2ZvOFBZUT09>

Meeting ID: 973 8431 8343/Passcode: 761860

- 09:45 – 16:30** **CHAIR: TPS-38 ORGANIZING COMMITTEE:**
- 09:45 – 10:00** Updated Period Analysis of DLMR Overcontact Binary YY CRB Using Tess Data
Burcu Özkardeş
- 10:00 – 10:15** The First Spectroscopic Observations of TYC 8726-1088-1
Derya Sürgit
- 10:15 – 10:30** The Spectroscopic Solution of SB1 System: TX Pyx
Derya Sürgit
- 10:30 – 10:45** Cubic Lovelock Gravity in Lower Dimensions
Gökhan Alkaç
- 10:45 – 11:00** The Kerr-Schild Double Copy in Curved Spacetime
Gökhan Alkaç
- 11:00 – 11:15** Apsidal Motion Analysis of the Detached Binaries HS Her and RU Mon
Muhammed Faruk Yıldırım
- 11:15 – 11:30** Are semi-detached binaries AK Ser, CU Peg and DK Peg multiple systems?
Muhammed Faruk Yıldırım
- 11:30 – 11:45** The Stephenson–Kilmister–Yang–Camenzind Equation in a (Non-) Compactified Kaluza-Klein Theory
Halil Kuyrukçu
- 11:45 – 12:00** Analysis of Atmospheric Aerosol over Türkiye from Suomi-NPP VIIRS product
Kazım Kaba
- 12:00 – 12:15** Exact solutions of non-local gravity
Ercan Kılıçarslan

- 12:15 – 12:30** Analysis of the Law of Atmosphere with Caputo Fractional Derivative
Mürsel Şen
- 12:30 – 14:30** LUNCH
- 14: 30 – 14:45** Black holes in $f(R)$ Gravity, Geodesic Motion
Saliha Türkmen
- 14:45 – 15: 00** Study of the Upper Layers of the Earth and Mars in the Process of Geomagnetic Storms
Hasan Şafak Erdağ
- 15:00 – 15:15** Two-Step Geomagnetic Storms and Their Effects on Space Weather
Hasan Şafak Erdağ
- 15:15 – 15:30** Symmetry Reduction of Monge Ampere Type Equation and (2+1)-dimensional bi-Hamiltonian System
Salih Yaman
- 15:30 – 15:45** Two Examples for Holonomic Constrained Mechanical Sysytems With Fractional Variation
Sedat Topuz
- 15:45 – 16:00** The Deflection of Light Rays in Brans-Dicke Theory With a Cosmological Constant or With an Arbitrary Potential
Hatice Özer
- 16:00 – 16:15** The Pulsating Nature of LV UMa and GSC 3949 386 Delta Scuti Type Stars
Yasemin Kaçar Canaydın
- 16:15 – 16:30** Anisotropic and Curvature Generalization of Λ CDM Model
Maya Özyiğit

