

Invited Speakers

IS_1	Avni AKSOY- Ankara University, Institute of Accelerator Technologies, Turkey Topic of the talk: The first national light source of Turkey for regional interest	
IS_2	Mehmet ARIK- Özyeğin University, Turkey Topic of the talk: Recent challenges in the thermal management of micro/nano electronics systems: Why engineers desperately needs physicists for ground breaking advancements	
IS_3	Burçin BAYRAM- Miami University / USA Topic of the talk: Time-Resolved Optical Double Resonance Spectroscopy of Sodium Dimers	
IS_4	Surajit CHATTOPADHYAY- Amity University, Kolkata Topic of the talk: Discussion on reconstruction schemes of modified gravity theories based on phenomenological models of dark energy	
IS_5	Orkide COSKUNER WEBER- Turkish-German University, Turkey Topic of the talk: Lacking Physics for Intrinsically Disordered Proteins	
IS_6	Franz J. GIESSIBL- Regensburg University, Germany Topic of the talk: "Revealing the physics of chemical bonds by atomic force microscopy	
IS_7	İskender GÖKALP- CNSR-ICARE, France Topic of the talk: When physics (and chemistry) meet engineering sciences for energy and environment challenges	
IS_8	Gail ter HAAR- Institute of Cancer Research, London, UK Topic of the talk: Heat and bubbles, ultrasound for cancer therapy	
IS_9	Pierre-Michel HILLENBRAND- Goethe University, Germany Topic of the talk: Dynamical processes in heavy-ion atom collisions	
IS_10	Muhammad Imtiaz KHAN- Abbottabad University of Science and Technology, Pakistan Topic of the talk: Magnetization dynamics in ferromagnetic nanostructures imaged by time-resolved photoemission electron microscopy	
IS_11	Ali İhsan KILIÇ- Academy of Science of the Czech Republic, Czech Republic	

	Topic of the talk: Investigation of a new micro-scale accelerator based on mesh materials as a nuclear research and technological applications	
IS_12	Amirullah MAMEDOV- Bilkent University, Turkey Topic of the talk: Topological Insulators: Theory and Application	
IS_13	Laura MERSINI-HOUGHTON- North Carolina University, USA Topic of the talk: Is our Universe Fine-Tuned?	
IS_14	Maxime MOUGEOT- CERN, Switzerland Topic of the talk: Latest results from nuclear binding energy studies at ISOLTRAP	
IS_15	Ekmel ÖZBAY- Bilkent University, Turkey Topic of the talk: Strong Light–Matter Interaction in Lithography-free Metamaterial Perfect Absorbers: Energy conversion, color filtering, and sensing applications	
IS_16	Feryal ÖZEL- The University of Arizona, USA Topic of the talk: Black Hole Physics with the Event Horizon Telescope	
IS_17	Gürkan ÖZTURK- Medipol University, Turkey Topic of the talk: Using light to understand the life: optical tools to study cell biology	
IS_18	Wolfgang QUINT- GSI, Germany Topic of the talk: Precision tests of fundamental physics with single particles in ion traps	
IS_19	Chen RUIJIU- GSI, Germany Topic of the talk: Measurement of the bound state β decay of bare $^{205}\text{Tl}^{81+}$ ions in the ESR Storage Ring	
IS_20	Daniel SCHULTE -CERN, Switzerland Topic of the talk: Muon Collider	
IS_21	Artemis SPYROU- Michigan State University, USA Topic of the talk: Studying the synthesis of elements in the Universe via rare-isotope research	
IS_22	H. Eugene STANLEY -Boston University, USA Topic of the talk: Econophysics: Using Statistical Physics Concepts to Offer Insights into Economic Questions	
IS_23	Hüseyin Ozan TEKİN- University of Sharjah, United Arab Emirates (UAE) Topic of the talk: Principles of Monte Carlo simulations for radiation transport and nuclear shielding studies in nuclear and medical physics: MCNPX experience	

IS_24	Taner YILDIRIM- National Institute of Standards and Technology, USA Topic of the talk: Pressure and Strain Control of Crystal Symmetry, Fermi Surface Reconstruction and Superconductivity in Weyl semimetal MoTe2	
IS_25	Vasileios ZARIKAS- Nazarbayev University, Kazakhstan Topic of the talk: Asymptotic Safety approach to quantum gravity and its astrophysical/cosmological consequences	
IS_26	Frank ZIMMERMANN- CERN, Switzerland Topic of the talk: Future Circular Collider Study – Status and Plan	

The oral presentations are arranged in alphabetical order according to the conference topics and then the name of the presenters.

Oral Presentations

Atomic And Molecular Physics

01OP1	Ali GÜNERHAN Modification of Surface Properties of Al 2024 Alloy By Using Nanosecond Fiber Laser	
01OP2	Arzu KURT Resonant enhancement of quantum transport in weakly coupled open-systems	
01OP3	Gürkan ÇELİK Solutions of Gaussian Wave Propagation in LiNbO3 Nonlinear Crystals	
01OP4	Hikmet BOZKURT Electron Impact Excitation of Single (93Np, 94Pu, 95Am, 96Cm, 97Bk) Atoms N and N Subshells Ionization Cross Section By Using Lotz's Equations	
01OP5	Hikmet BOZKURT Elektron Impact Excitation of Single (98Cf, 99Es, 100Fm 101Md, 102No, 103Lr) Atoms N and N Subshells Ionization Cross Section By Using Lotz's Equations	
01OP6	Mahmut AYDINOL Following Electron Impact Excitation of Single 84Po, 85At, 86Rn, 87Fr, 88Ra, 89Ac 90Th, 91Pa, 92U Atoms N Subhell Ionization Cross Sections by Using Lotz's Equations	
01OP7	Mahmut AYDINOL Following Electron Impact Excitation of Single 78Pt, 79Au, 80Hg, 81Tl, 82Pb, 83Bi Atoms N Subhell Ionization Cross Sections by Using Lotz's Equations	
01OP8	Melek ERASLAN Comparison of DFT and Hartree-Fock Theories in the Calculation of Atomic Form Factors. Application to Ne Atom	
01OP9	Muhammed Emin GÜLDÜREN SnO2 Thin Films Prepared by Successive Ionic Layer Adsorption and Reaction (SILAR) technique	
01OP10	Muhammed Emin GÜLDÜREN Characterization of nanocrystalline SnO2 thin film fabricated by Successive Ionic Layer Adsorption and Reaction (SILAR) technique for solar cell application	
01OP11	Murat KURT A General Simulation of Quantum Fourier Transform for All Quantum Systems	
01OP12	Neslihan KAYA KINAYTÜRK	

	Experimental and Theoretical Spectral (FT-IR, Raman, UV-Vis and NLO) Analysis of a potential antibiotic drug: Cefazolin	
01OP13	Niyazi YÜKÇÜ Magnetic Multipole Moment Operators and Integrals	
01OP14	Nuri YORULMAZ Determination of Quantum Mechanical Properties of Some Sulfonamide Derivatives	
01OP15	Özgen ÖZGE DFT investigations on the potential NLO chromophores containing the 2- phenyl-6-nitrobenzimidazole group	
01OP16	Özlem BAYAL Investigation of Defect Structures Of High-Electron Mobility Transistor (Hemt) Structures With Nitride Building By Different Methods	
01OP17	Sedanur KALECİK Investigation of Multi-Electron Systems via the Hartree-Fock Method	
01OP18	Selçuk ÇAKMAK Comparision of the Quantum Carnot, Otto and Stirling Heat Engine Cycles	
01OP19	Semih ÖZTÜRK Calculation of Pressure Values at Connection Point in Ships by an Optical Method	
01OP20	Sündüz GÖKÇEN Generation of holographic Airy beams using a phase-only spatial light modulator	
01OP21	Şeyma PARLATAN Classification of the Thulium Spectral Lines in the Visible Region	
01OP22	Şeyma PARLATAN Investigation of Hyperfine Structure of the Thulium Element in the Visible Region	
01OP23	Tugba GÖCEN Molecular Structure, Spectroscopic (IR, NMR, UV-VIS) Investigations and Non Linear Optical (NLO) Analysis of HDAC inhibitor 2-(N-(2-hydroxyphenyl)-2-propylpentanamide) with Quantum Chemical Calculations	

Applied Physics

02OP1	Ala JEHAD Producing the graphene/p-silicon Schottky junction solar cell and investigation the effect of multi-layer graphene in this cell	
02OP2	Aykut Evren YAVUZ Temperature dependent surface tension of nematic calamitic mesophase formed by potassium laurate-decanol-water system	
02OP3	Berkcan ERENLER Characterization Of Thermally Evaporated In2s3 Films For Thin Film Photovoltaic Applications	
02OP4	BUĞRA KOCAMAN A Novel High-Speed Data Sampling System Design for Space Radiation Testing	
02OP5	BUĞRA KOCAMAN Total Ionizing Dose (TID) and Displacement Damage (DD) Analyses for Conceptual Satellites	
02OP6	Büşra METE Single-mode in-band pumped fiber MOPA with an output power scaling up to 4.62 kW	
02OP7	Caner GEZGEZ Control of Laser Range Finder System with the Mental Task-Based Pattern Recognition Approach	
02OP8	Çağlar KAYA Status of the Ultrafast Nonlinear Optics Station of TARLA Facility	
02OP9	Didem KETENOĞLU Distinctive Applications of Synchrotron Radiation Based X-ray Raman Scattering Spectroscopy	
02OP10	Dilara PIRIYEVA Preparation and electrical properties of p-Si/Ag NWs/CdS heterostructures	
02OP11	Emre COSKUN Temperature Dependent Characterization of SnS/Si Nanowire Device Application	
02OP12	Esra BAL Natural Radioactivity Levels in Sediment Samples Taken from Şavşat's Black Lake in Artvin	
02OP13	Gülsevrim AYDIN The effect of electronic processes and structure property relationship on electronic devices in highly strained carbon nano belts	
02OP14	Hüseyin Okan DURMUŞ	

	Investigation of Temperature Effects of a Low-Level Laser Source Within the Muscle Phantom	
02OP15	Hüseyin Okan DURMUŞ Investigation of Optical Properties of Phantoms by Kubelka-Munk Function Approach	
02OP16	Kağan ŞARLAR Effect of annealing temperature on phase formation and magnetocaloric properties in a rare earth free high entropy alloy	
02OP17	Mehmet ERKUŞ Light Guide Technology in Automotive Lighting	
02OP18	Mustafa BÜYÜKHARMAN Investigation of Mo-O Thin Film With Different Ratio of W By Using RF Magnetron Sputtering System	
02OP19	Özgür ETİSKEN Estimates of Collective Effects For Fcc-Ee Pre-Booster Ring	
02OP20	Ozgun MASALCI Investigation of Birefringence of Lyotropic Nematic Mesophase Under Magnetic Field	
02OP21	Sadiye ÇETİNKAYA ÇOLAK Production of V2O5 Doped Soda-Silicate Glasses with Classical Melt-Quenching Technique and Physical Characterization of These Oxide Glasses	
02OP22	Selin ERTAN Design and Construction of a Plasma Propulsion Engine: Hall Thruster	
02OP23	Yunus BABUR Determination of Natural Radioactivity in Special Red Pepper (Isot) in Sanliurfa, Turkey	

Condensed Matter Physics

03OP1	Ahmet Kürşat BİLGİLİ Application of Swanepoel Method for InGaN/GaN MQWs	
03OP2	Arzu KURT Pressure Dependence of the Raman Frequency, Damping Constant, Activation Energy and Relaxation Time of the Raman Modes In [(CH ₃) ₂ NH ₂][Mn(HCOO) ₃]	
03OP3	Arzu KURT Raman Modes and Gröneisen Parameter as a Function of Pressure For Order-Disorder Transition in DMAMnF	
03OP4	Ayşenur GENCER First Principles Study of the Electronic, Mechanic and Vibrational Properties of M ₄ AIB ₃ (M=V, Nb) MAX phases	
03OP5	Buğra YILDIZ Investigation of Mechanical Properties and The Electronic and Magnetic Behavior of Silver-Based Ferrite Chalcogenides Ag ₃ FeCh ₄ (Ch = S and Se)	
03OP6	Büşra TAŞKIRAN Role of substrate temperature on the structural and optical properties of spray deposited WO ₃ thin films	
03OP7	Ertuğrul KARACA Theoretical investigation of superconductivity in the Ta ₃ Ge	
03OP8	Esra EROĞLU Hydrogen Storage Properties of Ca-Decorated BC ₃ Sheet	
03OP9	Gülnur ÖNSAL Dielectric Performance Analysis of Phthalocyanine and Quantum Dot Doped Nematic Liquid Crystal Composite Structures	
03OP10	İbrahim GÜNEŞ SnS Thin Films Deposited By Ultrasonic Spray Pyrolysis: Structural, Optical And Electrical Analyzes	
03OP11	İbrahim GÜNEŞ Structural, Optical and Electrical Properties of Czts Layers by Ultrasonic Spray Pyrolysis For Photovoltaic Applications	
03OP12	İrem ALP Hydrogen Storage on Sc-decorated single-vacancy phosphorene	
03OP13	Mehmet YAGMURCUKARDES In-Plane Anisotropic JANUS Single Layer Black Arsenic-Phosphorus: Electronic, Optical, Vibrational, and Elastic Properties	
03OP14	Mohammed ALKHALDY A Study on the Dosimetric Properties of Polycarboxylate Cement Used in Dental Treatments	

03OP15	Mustafa ESEN The Effect of Alternating Electric Field Direction on Carbon Nano-Coatings formed with ECR Plasma System	
03OP16	Nihan ÜNLÜ Study on Basic Characteristics of Cu-based Shape Memory Alloy	
03OP17	Nihan ÜNLÜ Effect of Fillers (GO, rGO, ZnO) On Shape Memory Properties Of Polyvinyl Alcohol (PVA) Matrix Nanocomposite Materials	
03OP18	Özlem ÇELİKEL Coating Properties on Metal Surfaces With Nitrogen and Free Nitrogen Doped Carbon Films by Using Electron Cyclotron Microwave Plasma (ECR-MP) Method	
03OP19	Pshdar Ahmed Ibrahim Ibrahim Effect of B4C Adding on NiCoFeAlMoTiCr High Entropy Alloy	
03OP20	Pshdar Ahmed Ibrahim Ibrahim SME Observations of Cu-Al based SMAs	
03OP21	Ramazan KAVLAK Nanosized monolayer on the square lattice within Spin-1 Ising model: Magnetic properties with odd interactions	
03OP22	Selma ÖZARSLAN Corrosion properties of high pressure die cast Mg-4Zn-xLa (x= 0, 1, 2 and 4 wt.%) alloys Corrosion properties of high pressure die cast Mg-4Zn-xLa (x= 0, 1, 2 and 4 wt.%) alloys	
03OP23	Sera İFLAZOĞLU Photoluminescence study on Dy ³⁺ doped MgB ₄ O ₇ Phosphor	
03OP24	Sera İFLAZOĞLU Synthesis, characterization and photoluminescence studies of undoped Boron phosphate	
03OP25	Serkan GÜLDAL Monte Carlo Study of Perovskites Structure for Ferromagnetic Spin-1/2	
03OP26	Talha ZAFER Structural, Electronic and Elastic Properties of Body Centered Tetragonal NdPd ₂ Ge ₂	
03OP27	Talha ZAFER Electron-Phonon Interaction and Superconductivity in LaPd ₂ Ge ₂ by First Principles Pseudopotential Calculation	
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	A Calculation Study in MAB Phase Stages: Atomic laminated, Triple Transition Metal Borides	
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Energy and Applications

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04OP2	Ali İhsan KILIÇ The investigation of new micro-scale accelerator (MSTURKAC) based on mesh materials as a nuclear research and technological applications	
04OP3	Cihangir KAHVECİ Effect of Perovskite Structure on the Performance of Perovskite Solar Cells	
04OP4	Sebahat ALTUNDAĞ Fabrication of Na ₂ /3Mn ₁ /2Fe ₁ /2O ₂ composition and the investigation of Al-substitution in the structure: Electrochemical performance analysis	
04OP5	Shafiq SAAİE A Target Design for Accelerator Driven System	
04OP6	Sündüz GÖKÇEN Efficiency Analysis of Photovoltaic Solar Panels with Monocrystalline and Polycrystalline	

High Energy, Particle and Plasma Physics

05OP1	Ayben KARASU UYSAL Measurement of Inelastic, Single- and Double-Diffraction Cross Sections in proton-proton Collisions at the LHC with ALICE	
05OP2	Ayhan AYDIN Pilot Tone BPM System Design: With High Level FPGA programming method	
05OP3	Ayhan AYDIN Genetic Algorithm-based Optimization Approaches on Radiation Characteristics of an X-ray Free-Electron Laser	
05OP4	Aytül ADIGÜZEL Proton Test-beam at KAHVE Laboratory and its Microwave Discharge Ion Source	
05OP5	Bora KETENOĞLU Optimization and design of cutting-edge-technology tools for natural sciences research in the 21st century: X-ray free electron lasers	
05OP6	Duygu HALİS Beam Diagnostics for Low Energy Proton Beam	
05OP7	Elif SERTBAKAN Missing Member of the $J^P = 2^{--}$ Nonet in Extreme Conditions	
05OP8	Ender AKDOĞAN Magnet Engineering Studies on Booster Ring of Tac-Turkey Synchrotron Radiation Facility	
05OP9	Evrin ÇOLAK Site-testing of 18 kW Solid State Power Amplifier in TARLA	
05OP10	Güven AKPINAR Grover's search algorithm implementation in Continuous Variables Systems	
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05OP16	Orhan ÇAKIR A Graphical User Interface to Design Solenoid and Quadrupole Magnets with Demirci-Pro	
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Material Science and Applications

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06OP3	Erhan TİRYAKİ An Improved Method for Determination of Refractive Index of Dielectric Films by Using the Generalized Morse Wavelet	
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06OP5	Esra KUŞ Role of Ni doping on the electrical, magnetic and surface properties of ultrasonic sprayed ZnS thin films	
06OP6	Esra KUŞ Structural and Optical Properties of Spray Pyrolysed ZnS:Mn Thin Films	
06OP7	Hasan DURMUŞ The effect of nanoscale Al doping on microstructural and superconducting properties of MgB ₂ samples	
06OP8	Nazife ASLAN Graphenoxide/Gold Nanoparticle Based Electrochemical Sensor Design for Pesticide Residue Analysis	
06OP9	Şenol KAYA Effects of the Platinum Doping Concentration on the Oxygen Gas Sensitivity of Pt/TiO ₂ /Pt Devices	
06OP10	Yunus Emre FIRAT Supercapacitor properties of rGO-WO ₃ electrodes prepared by electrodeposition technique	

Mathematical Physics, Astrophysics and Applications

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07OP2	Batuhan ÇİL Homogeneous and Anisotropic Universe Models in $f(R,T)$ Gravity	
07OP3	Burak ULAŞ Image Classification Algorithm for Determining the Light Curve Morphologies of ASAS-SN Eclipsing Binaries	
07OP4	Burcu ÖZKARDEŞ Photometric investigation, period analysis and evolutionary status of the short-period eclipsing binary FV CVn	
07OP5	Çağatay ESKİN Stochastic Population Model with Predation Fear	
07OP6	Çağlayan NEHİR A Third Body With Earth Mass In Eclipsing Binary System Kic 8610483	
07OP7	Çağlayan NEHİR Orbital Period Changes Of Semi-Detached Systems: KIC 4574310 and KIC 9159301	
07OP8	Damla KOCAMAN BI-Hamiltonian Structure Of (2+1)-Dimesional Eolutionary Hirota Type Equations	
07OP9	Derya SÜRGİT The First Spectroscopic Solutions of Two Southern Eclipsing Binary Stars: VW Ret and FW Vel	
07OP10	Doğukan TAŞER Visser-Kar-Dadhich Wormhole in $f(R,T)$ gravity	
07OP11	Emir BAYSAZAN Generalized Gödel Universe in $\kappa(R,T)$ Gravity	
07OP12	Emir HALİKİ A network model for intelligence	
07OP13	Enes Talha KIRCA Dynamical system analysis of anisotropic and homogenous $f(R)$ gravity models	
07OP14	Fahri ALİÇAVUŞ Investigation of the evolutionary status of contact binary star V1363 Ori	
07OP15	Fahri ALİÇAVUŞ Detailed Analysis of Two Eccentric Binary Stars Observed by TESS	

07OP16	Filiz KAHRAMAN ALİCAVUS Analysis of some TESS field pulsating chemically peculiar stars	
07OP17	Hande AYGENLİ Dynamic System Analysis in Homogeneous and isotropic $f(R)$ Gravity Models	
07OP18	Maryam JAMADI Tunneling as Fermionic Emission of Black Strings	
07OP19	Maryam JAMADI Fermion Emission of Global and Local monopole black holes	
07OP20	Melik Emirhan TUNALIOĞLU Aspects of Aharonov-Casher and Aharonov-Bohm effects in entangled systems	
07OP21	Merve KOCAMAN An Econophysics Application to the portfolio optimization for BIST 100	
07OP22	Merve KOCAMAN Purchasing power parity, inflation rate, and exchange rate forecasting for Turkey in 2021	
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07OP26	Mukadder İĞDİ ŞEN Possible Effects of Space Radiation on Space People and Spacecraft and Solution Suggestions	
07OP26	Murat İnanç GÖZÜTOK Analysis of TESS Observations of Algol Type Binary Star GI Cep and V746 Cep	
07OP28	Mustafa Kutay YABAŞ Likelihood Free Particle Filtering With Approximate Bayesian Computation for Parameter Estimation in Cosmic Ray Air Shower Studies	
07OP29	Nevruz TAŞ Investigation of the Domain Wall Matter Distributions in $f(R, T)$ Theory with Λ	
07OP30	Nurşah AKTAY Evolution and Constraint Equations in $F(G)$ Cosmology	

07OP31	Pınar KÜTÜKCÜ Free Electron Density in the Galaxy, Distances of Neutron Stars	
07OP32	Sinem KALKAN Investigation of Magnetized Strange Quark Matter Distribution in $f(R,T)$ Theory	
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Medical Physics and Applications

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08OP2	Aysun İNAL The effect of different CT number-relative electron density tables on two different dose calculation algorithms	
08OP3	Denizhan KARIŞ Effects of Smoking on Serum Nickel and Boron Levels	
08OP4	Duygu TARHAN Examination of Zinc and Melittin Applications on A549 Lung Cancer Cells by using Raman Spectroscopy	
08OP5	Enes AKYUZ The role of potassium ions in neurological diseases	
08OP6	Gökçen İNAN Dosimetric Comparison of Two Different Radiotherapy Techniques in Breast Cancer	
08OP7	Gökçen İNAN Dosimetric Evaluation of Manual and Inverse Optimization Treatment Planning for High Dose Rate Brachytherapy of Endometrium Cancer	
08OP8	Handan TANYILDIZI KÖKKÜLÜNK Evaluation of Virus and Radiation Relation in Terms of Sterilization	
08OP9	Handan TANYILDIZI KÖKKÜLÜNK Determination of Radiation Exposure among Students During Their Internships	
08OP10	Osman Vefa GÜL Dosimetric comparison of geometric and inverse optimization treatment planning for high dose rate brachytherapy of cervical cancer	
08OP11	Osman Vefa GÜL Dosimetric comparison of three-dimensional conformal radiotherapy and intensity-modulated radiotherapy for deep location tumour	
08OP12	Rıza DİLEK Determination Ionization Potential of Water Through Effective Stopping Power Formula	
08OP13	Sibel SARIAYDIN Investigation of the influence of voxel-size effects on the patient dose distributions for Monte Carlo dose calculations in ¹⁹² Ir Interstitial Breast Brachytherapy	
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	Determining Dose Calculation Differences Between Mc, Ccc And Pb Algorithms For Various Heterogeneities In Radiotherapy Using Catphan 600 Phantom	
08OP15	Züleyha ÖZÇELİK ÇETİNEL Thermodynamic effects of Hexadecylphosphocholine, a cancer agent, on zwitterionic and anionic model membranes	

Nuclear Physics

09OP1	Abbas Alpaslan KOÇER INVESTIGATION OF SEASONAL RADON LEVELS WITH AN ELECTRONIC DETECTOR	
09OP2	Burcu EROL The Gamma Ray Sorption of PS-PEG-OPC Composites and PS-PEG-OPC-BN Nanocomposites	
09OP3	Burcu EROL Coupled-Channel Analyses on $^{32}\text{S}+^{90}\text{Zr}$ and $^{32}\text{S}+^{96}\text{Zr}$ Heavy-Ion Fusion Reactions and Barrier Distributions	
09OP4	Devan JESSIE AARON RUDOLPHNORM Radiation levels in surface soil samples from dwelling areas of North Cyprus	
09OP5	Devan JESSIE AARON RUDOLPH Heavy metals concentration in surface soil samples from dwelling areas of North Cyprus	
09OP6	Duygu Erdek Investigation of Radon Exhalation Rates In Heavy Concrete With Lr 115-Type II Detector Using Sealed Can Technique	
09OP7	Elif KEMAH Electric Dipole Excitations in ^{233}U within TGI-QPNM	
09OP8	Elif KEMAH Magnetic Dipole Moments of $K=1/2$ states in odd-mass Yb Isotopes	
09OP9	Hacı Ali GÜRDAL Preliminary Results of Radiation Absorption Properties of Lignocellulose Added Concretes	
09OP10	Haşim Zahid GÜVEN Charmed nuclei with Mean Field Approach	
09OP11	Hatice YILMAZ ALAN Nuclear Applications Proposal at TARLA Facility	
09OP12	Huseynqulu QULIYEV Structure of Pygmy Dipole Resonance in well deformed $^{146,148,150,152}\text{Nd}$	
09OP13	Huseynqulu QULIYEV Microscopic Investigation of Low- and High- Lying Electric Dipole Resonance in Odd-Mass ^{153}Eu	
09OP14	İlker Can ÇELİK The Usage of ROOT in Analyzing Gamma-rays with Covell and Total Peak Area Methods	
09OP15	İlker Can ÇELİK A Novel Method of Analyzing a Reaction Using the Data from Particle and Gamma-Ray Detectors	

09OP16	İsmail Hakkı SARPÜN Theoretically Calculation of Nucleon Densities and Nuclear Potentials in some Isotone Nuclei of 28 Neutrons	
09OP17	İsmail Hakkı SARPÜN Evaluation of Cross Sections, Reaction Rates and Astrophysical S-Factors for (0-4) MeV Energy Range for Selenium Isotopes	
09OP18	Mustafa BİÇER Radon and Radium Measurements of Eskisehir Spa Waters	
09OP19	Osman KAPTAN Radon Measurements of the Spring Waters in Sakarya, Turkey	
09OP20	Taylan BAŞKAN Calculations of Nuclear Level Densities for Some Deformed Nuclei	
09OP21	Zehra Merve CİNAN PS-PEG Block Copolymers and PS-PEG-BN Nanocomposites–Gamma Ray Interaction	
09OP22	Zehra Merve CİNAN Inspecting of ²¹¹ At Radionuclide via Fusion Reaction of Stable ¹⁹ F and ¹⁹² O _s Nuclei	

Physics Education and Applications

10OP1	Ahmet KUMAŞ Comparative Evaluation of Distance Physics Education Applications Applied In The Covid-19 Process	
10OP2	Ahmet KUMAŞ Assessment and Evaluation Methods Provided by Practitioners in Applications of Distance Physical Education in The Covid-19 Process	
10OP3	Vahap SAMANLI Complexity and Derrida	

The poster presentations are arranged in alphabetical order according to the conference topics and then the name of the presenters.

Poster Presentations

Atomic and Molecular Physics

01PP1	Hatice KILINÇ A Computational Study on The Electronic and Nonlinear Optical Properties of Some Hexagonal Boron-Nitride Structures	
01PP2	Özgen ÖZGE Theoretical calculations on structural, spectroscopic and non-linear optical parameters of molecules containing 2-aryl group	
01PP3	Selçuk ÇAKMAK NMR Quantum Carnot Cycle	
01PP4	Sinem GÜRKAN AYDIN Computational study on molecular structure and vibrational analysis of nitrosodurene	

Applied Physics

02PP1	Asli UĞUR KATMIŞ Characterisation of Aberrations on Magnetron Sputtered Mirror Samples Inside A High Power Laser Interferometer	
02PP2	Asli UĞUR KATMIŞ Analysis and Experiments on the Effects of High Power Laser Beam on Optical Performance	
02PP3	Ayşegül Sezgin Structural Analyzing of Mo-O Thin Film with Different Ratio of W by Using Rf Magnetron Sputtering System	
02PP4	Bülent DÖNMEZ Experimental Design for Cutting Multilayer Fabrics with Laser	
02PP5	Mustafa BÜYÜKHARMAN XRD Analyzing of Mo-O Thin Film Through Different Ratio W Doping	
02PP6	Murat ÇAYDAŞI Theoretical calculation of thermoelectric properties of TlGaSe ₂ with defects	
02PP7	Nurşaç KURT Determination of Theoretical Fracture Criteria of Composite Material Using Artificial Intelligence Methods	
02PP8	Nurşaç KURT Estimation of Spread Size of Epidemic Diseases with Artificial Intelligence	

Condensed Matter Physics

03PP1	Seyfettin Ayhan High Pressure Effect on Electronic Properties of Cubic MgSnO ₃ Perovskite	
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High Energy, Particle and Plasma Physics

05PP1	Aslıhan ÇAĞLAR KAHVE Laboratory 800 MHz Power Combiner Design for RFQ Transmission Line	
05PP2	Bora KETENOĞLU Parametrization of lepton and nucleus beams at IP for SppC-based linac-ring and ring-ring collider scenarios	
05PP3	Volkan ARI Search for $W^+ W^- \gamma\gamma$ anomalous quartic couplings in $e^+ p$ collisions at the FCC-he	

Material Science and Applications

06PP1	Atilla EVCİN Effect of Ca/P ratio on the performance of plasma spray coating	
06PP2	Büşra DALKILINÇ A Novel Method to Prepare of Silan Based Superhydrophobic Thin Film	
06PP3	Emine YAŞAR Effect of solvent type and number of coating layers on the contact angle of hydrophilic TiO ₂ thin film	
06PP4	Hüseyin ÖZGÜR Investigation of Structural, Optical and Dielectric Properties on the PMMA / PVP nd PMMA / TiO ₂ -PVP Composites	
06PP5	İbrahim Cenk YERLİGİL Abinitio Calculation of Structural and Electronic Properties of Cubic SrSnO ₃ Perovskite	

Mathematical Physics, Astrophysics and Applications

07PP1	Duygu DEMİR KIZILIRMAK The Solutions of Dirac Equation on the Hyperbolic Surface Under Perpendicular Magnetic Field	
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Nuclear Physics

09PP1	Pelin OTANSEV Determination of Radon Activity Concentrations in Homes and Cancer Risks	
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