

5 SEPTEMBER 2017, TUESDAY

10:00 – 16:00

REGISTRATION (**KONACIK HERODOT CULTURAL CENTRE)**

(PLEASE COME EARLY TO REGISTER)

5 SEPTEMBER 2017, TUESDAY

MAIN HALL - HERODOT CULTURAL CENTER (KONACIK)

HALL (1 – 18) – BODRUM HIGH SCHOOL (KONACIK)

HALL 1: ASTROPHYSICS AND COSMOLOGY

HALL 2: ATOMIC AND MOLECULAR PHYSICS - 1

HALL 3: ATOMIC AND MOLECULAR PHYSICS – 2

HALL 4: ATOMIC AND MOLECULAR PHYSICS – 3

HALL 5: ENERGY

HALL 6: PHYSICS EDUCATION AND PHILOSOPHY

HALL 7: STATISTICAL PHYSICS

HALL 8: MATHEMATICAL PHYSICS

HALL 9: MEDICAL PHYSICS

HALL 10: NUCLEAR PHYSICS -1

HALL 11: NUCLEAR PHYSICS -2

HALL 12: APPLIED PHYSICS - 1

HALL 13: APPLIED PHYSICS - 2

HALL 14: CONDENSED MATTER PHYSICS - 1

HALL 15: CONDENSED MATTER PHYSICS - 2

HALL 16: CONDENSED MATTER PHYSICS - 3

HALL 17: HIGH ENERGY AND PLASMA PHYSICS -1

HALL 18: HIGH ENERGY AND PLASMA PHYSICS -2

**6 SEPTEMBER 2017, WEDNESDAY
HERODOT CULTURE CENTER
MAIN HALL**

- 09:00 – 10:30** **OPENING CEREMONY**
- 10:30 – 11:00** **COFFEE BREAK**
- 11:00 – 13:00** **CHAIR: Nihat BERKER**
- 11:00 – 11:30** “IN-CHIP” 3D SILICON ELEMENTS CREATED WITH NONLINEAR LASER LITHOGRAPHY
Onur TOKEL – Bilkent University, Turkey
- 11:30 – 12:00** MOLECULAR DYNAMICS AND PHOTODYNAMICS IN CRYOGENIC MATRICES
Claudine CREPIN-GILBERT – CNRS, France
- 12:00 – 12:30** NEW APPROACHES FOR CRYSTALLINE Si SOLAR CELL TECHNOLOGY AND GÜNAM’S ACTIVITIES
Raşit TURAN – Middle East Technical University, Turkey
- 12:30 – 13:00** FAIR PROJECT PROGRESS AND PHYSICS OPPORTUNITIES
Jurgen GERL – GSI, Germany
- 13:00 – 14:00** **BREAK**
- 14:00 – 15:30** **CHAIR: Şener OKTİK**
- 14:00 – 14:30** CHALLENGING THE STANDARD MODEL BY HIGH-PRECISION COMPARISONS OF THE FUNDAMENTAL PROPERTIES OF PROTONS AND ANTIPROTONS
Hiroki NAGAHAMA – Riken, Japan
- 14:30 – 15:00** OBSERVATION OF STRONG LOCALIZATION IN SUSPENDED GRAPHENE
İsmet İnönü KAYA – Sabanci University, TURKEY –
- 15:00 – 15:30** CHEMISTRY-FREE MICROFLUIDIC TECHNOLOGIES TO SORT CELLS FOR HEALTH AND DISEASE
Utkan DEMİRCİ – Stanford University, US
- 15:30 – 16:00** **COFFEE BREAK**
- 16:00 – 17:30** **PANEL**
ASSOCIATE MEMBERSHIP OF TURKEY TO CERN: DEVELOPMENTS AND EXPECTATIONS

Prof. Dr. Ömer YAVAŞ (Moderator) – Ankara University
Dr. Orkun HASEKİOĞLU – Vice President of TÜBİTAK
Alper Nazmi YÜKSEL - Turkish Atomic Energy Authority (TAEK)
Hakan KIZILTOPRAK – TOBB CERN ILO Representative
Prof. Dr. Serkant Ali ÇETİN – Bilgi University
Bekir SAĞLAM YÜREK – Dora Makina Manuf. Ind.Trade.Co.Ltd
Ümit SÖNMEZ – Sönmez Transformer Company
- 20:00 – 23:00** **WELCOME PARTY (TRAFÖ – HAKAN AYKAN ART AND CULTURAL CENTER)**

**7 SEPTEMBER 2017, THURSDAY
HERODOT CULTURE CENTER
MAIN HALL**

- 09:30 – 10:30 CHAIR: Ömer YAVAŞ**
- 09:30 – 10:00 FUTURE COLLIDER CHALLENGES
Daniel SCHULTE – CERN, Switzerland**
- 10:00 – 10:30 SHAPEABLE MAGNETOELECTRONICS AND MAGNETORESISTIVE BIOSENSORS
Numan AKDOĞAN – Gebze Technical University, Turkey**
- 10:30 – 11:00 COFFEE BREAK**
- 11:00 – 13:00 CHAIR: Cevdet COŞKUN**
- 11:00 – 11:30 PHASE TRANSITIONS BETWEEN DIFFERENT SPIN-GLASS PHASES AND BETWEEN
DIFFERENT CHAOS IN QUENCHED RANDOM CHIRAL SYSTEMS
Nihat BERKER – Kadir Has University, Turkey**
- 11:30 – 12:00 QUANTUM INTERFERENCES: FROM EXOTIC RESONANCES TO MOLECULAR
ORBITAL IMAGING
Osman ATABEK – CNRS, France**
- 12:00–12:30 APPLICATION PERSPECTIVES OF ULTRA-THIN GLASS
Şener OKTİK - ŞİŞECAM, Science and Technology Center, Turkey**
- 12:30–13:00 PHYSICAL PARAMETRES OF THE RUPTURE OF EARTHCRUST DURING THE
EARTHQUAKE. (EXAMPLE MARMARA AND AGEAN TYPE EARTHQUAKE)
Şener ÜŞÜMEZSOY – İstanbul University, Turkey**
- 13:00 – 13:30 BREAK**
- 13:30 – 14:30 POSTER SESSION (HERODOT CULTURAL CENTER)**
- 01_PP 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 40**
- 02_PP 01, 02, 03, 04, 05**
- 03_PP 01, 02, 03, 04, 05, 06, 07, 08, 09, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28,
29, 30, 31, 32, 33, 35, 45, 85, 101**
- 04_PP 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 25, 26, 27, 28,
29, 30, 31, 32, 34, 35, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 64, 79, 89, 128**
- 05_PP 01, 02, 03, 04, 05, 06, 07**
- 06_PP 01, 02, 03, 04, 05**
- 08_PP 01, 02, 07, 10, 12, 13, 14, 17**
- 09_PP 01, 02, 03, 04, 05, 06, 07, 08, 09, 11, 12, 13, 14, 15, 35**
- 11_PP 01, 02, 03**

**8 SEPTEMBER 2017, FRIDAY
HERODOT CULTURE CENTER
MAIN HALL**

09:30 – 10:30 CHAIR: Serguei MOLODTSOV

**09:30 – 10:00 MATHEMATICAL METHODS IN NONLINEAR DYNAMICS
Radu Dan CONSTANTINESCU – University of Craiova, Romania**

**10:00 – 10:30 WHAT WE TEACH AND WHAT IS LEARNED - CLOSING THE GAP
Ali ERYILMAZ – Middle East Technical University, Turkey**

10:30 – 11:00 COFFEE BREAK

11:00 – 13:00 CHAIR: Michiharu WADA

**11:00 – 11:30 VUV SPECTROSCOPY OF FREE RADICALS
Berenger GANS – CNRS, France**

**11:30 – 12:00 WHAT DO THE COSMOLOGICAL SUPERNOVA DATA REALLY TELL US
İbrahim SEMİZ – Boğaziçi University, Turkey**

**12:00–12:30 PROBING THE GROUND STATE OF THE ANISOTROPIC ORGANIC CONDUCTORS BY
THERMOPOWER MEASUREMENTS
Danica KRSTOVSKA – Saints Cyril and Methodius University, FYROM**

**12:30–13:00 MY JOURNEY IN THE FLATLAND
Oğuz GÜLSEREN – Bilkent University, Turkey**

13:00 – 13:30 BREAK

13:30 – 14:30 POSTER SESSION (HERODOT CULTURAL CENTER)

01_PP 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

02_PP 06, 07, 08, 09, 10

**03_PP 34, 37, 39, 40, 41, 42, 43, 44, 46, 47, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66,
67, 69, 96, 100**

**04_PP 33, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76,
77, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102,
143, 146**

05_PP 08, 09, 10, 11, 12, 13, 14

06_PP 06, 07, 08, 09

07_PP 01, 02, 03, 04, 05, 06, 07, 08

08_PP 03, 04, 05, 06, 08, 09

09_PP 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 38

20:00 – 24:00 CONGRESS DINNER

**9 SEPTEMBER 2017, SATURDAY
HERODOT CULTURE CENTER
MAIN HALL**

- 09:30 – 10:30** **CHAIR: Danica KRSTOVSKA**
- 09:30 – 10:00** THE MIRACLE MOLECULE C₆₀ FULLERENE: PREDICTIONS FROM ROOM TEMPERATURE SUPERCONDUCTIVITY TO ASTROBIOLOGY
Doğan ERBAHAR – Gebze Technical University, Turkey
- 10:00 – 10:30** ELI-NP FACILITY: NUCLEAR PHYSICS WITH HIGH POWER LASERS
Florin NEGOITA
- 10:30 – 11:00** **COFFEE BREAK**
- 11:00 – 13:00** **CHAIR: Alexander PETROV**
- 11:00 – 11:30** DFT INVESTIGATION OF NMR CHEMICAL SHIFT VALUES OF NUCLEI AND OXYGEN BONDINGS IN CO DOPED PBTIO₃ STRUCTURE
Şinasi ELLİALTIOĞLU
- 11:30 – 12:00** HIGH PRECISION SPECTROSCOPY OF LOW-ENERGY SHORT-LIVED NUCLEI
Michiharu WADA – KEK, Japan
- 12:00 – 12:30** COSMIC SCREENING IN THE UNIVERSE
Alexander ZHUK – Odessa I.I. Mechnikov National University, Ukraine
- 12:30 – 13:00** EUROPEAN XFEL: SUPERIOR TOOL FOR FRONTIER SCIENCE
Serguei MOLODTSOV – XFEL, Germany
- 13:00 – 13:30** **BREAK**
- 13:30 – 14:30** **POSTER SESSION (HERODOT CULTURAL CENTER)**
- 01_PP** 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44
- 02_PP** 11, 12, 13, 14, 15
- 03_PP** 10, 22, 38, 48, 49, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 97, 98, 99, 102, 103
- 04_PP** 21, 24, 36, 38, 62, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 129, 130, 131, 132, 133, 134, 136, 137, 138, 139, 140, 141, 142, 144, 145, 147, 148, 149, 150, 151, 152, 153
- 05_PP** 15, 16, 17, 18, 19, 20
- 06_PP** 10, 11, 12, 13
- 08_PP** 11, 15, 16, 18
- 09_PP** 10, 31, 32, 33, 34, 36, 37, 39, 40, 41, 42, 43, 44, 45, 45
- 10_PP** 01, 02, 03, 04, 05, 06

HALL – 1
ASTROPHYSICS AND COSMOLOGY

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 1
ASTROPHYSICS AND COSMOLOGY**

15:30 – 16:30 CHAIR: Ertan GÜDEKLİ

**15:30 – 15:45 ON THE EFFECTS OF DIFFERENT PERTURBATIONS APPLIED TO THE BLACK HOLE-TORUS SYSTEM
Orhan Dönmez**

**15:45 – 16:00 ORBITAL PARAMETERS OF THE MULTIPLE SYSTEM EM BOO
Burcu ÖZKARDEŞ**

**16:00 – 16:15 ORBITAL PERIOD ANALYSES OF TWO W UMA TYPE ECLIPSING BINARIES: BS CAS AND V836 CYG
Burcu ÖZKARDEŞ**

**16:15 – 16:30 SPECTROSCOPIC OBSERVATIONS OF SOME LONG PERIOD BINARY SYSTEMS
Evrin KIRAN**

16:30 – 16:45 COFFEE BREAK

16:45 – 17:30 CHAIR: Ali YILMAZ

**16:45 – 17:00 PERIOD AND LIGHT CURVE ANALYSIS OF THE CONTACT ECLIPSING BINARY VW CEPHEI
Sinan ALLAK**

**17:00 – 17:15 EXAMINATION OF LIMB DARKENING EFFECT ON THE TRANSIT LIGHT CURVES OF HAT-P- 32B
Hülya ÇUHA**

**17:15 – 17:30 RECONSTRUCTION OF UPWARD-GOING NT SHOWERS FOR TWO DIFFERENT MOUNTAIN SLOPE
Şeyma Atik YILMAZ**

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 1
ASTROPHYSICS AND COSMOLOGY**

- 15:30 – 16:30** **CHAIR: Arzu ÇİLLİ**
- 15:30 – 15:45** THERMODYNAMICAL ANALYSIS OF SUPER INFLATION MECHANISM IN
EXTENDED TELEPARALLEL GRAVITY
Ali İhsan KESKİN
- 15:45 – 16:00** CORRELATION STUDY OF COSMIC RAY RATE WITH SOLAR ACTIVITY
Ali YILMAZ
- 16:00 – 16:15** TIMING DETECTION OF THIRD BODIES ORBITING ECLIPSING BINARIES
İlham NASIROGLU
- 16:15 – 16:30** CHARACTERIZING STERILE NEUTRINO DARK MATTER FROM ELLIPTICAL
GALAXIES
Murat HÜDAVERDİ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Murat HUDAVERDI**
- 16:45 – 17:00** LIGHT CURVE ANALYSIS OF SOUTHERN DETACHED BINARY: CPD-79 92
Simge ÖZER
- 17:00 – 17:15** LIGHT CURVES ANALYSIS OF KEPLER ALGOL TYPE ECLIPSING BINARY STAR
KIC5513861
Neslihan KÖRPE
- 17:15 – 17:30** AN X-RAY STUDY OF THE WELL-KNOWN GALACTIC SHELL-TYPE SUPERNOVA
REMNANTS
Nergis Cesur
- 17:30 – 17:45** STATISTICAL EXAMINATION OF ORBITAL ELEMENTS OF THE HOST STAR IN
STAR-PLANET SYSTEMS
Oğuz ÖZTÜRK
- 17:45 – 18:00** ON THE CLASSIFICATION OF TRANSITING EXOPLANETS
Oğuz ÖZTÜRK

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 1
ASTROPHYSICS AND COSMOLOGY**

- 15:30 – 16:30** **CHAIR: İlham NASIROĞLU**
- 15:30 – 15:45** THE APSIDAL MOTION OF THE ECLIPSING BINARY SYSTEMS: V871 PER AND NO PUP
Ahmet BULUT
- 15:45 – 16:00** ORBITAL PERIOD VARIATION OF W UMA ECLIPSING BINARY U PEG
Ahmet BULUT
- 16:00 – 16:15** NEAR CONTACT BINARIES RT SCL AND FT LUP: A CASE STUDY ON PERIOD VARIATIONS
Muhammed Faruk YILDIRIM
- 16:15 – 16:30** VARIABLE ORBITAL PERIODS OF EARLY CONTACT BINARIES S ANT AND LS DEL
Muhammed Faruk YILDIRIM
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Cahit KARANFİL**
- 16:45 – 17:00** DYNAMICAL MASS AND GAS-MASS FRACTION ESTIMATIONS OF NEARBY GALAXY CLUSTERS
Onur Ünver
- 17:00 – 17:15** INTERACTIONS AND INNER DYNAMICS OF NON-RELAXED GALAXY CLUSTERS
Muhammed Kıyami ERDİM
- 17:15 – 17:30** LIGHT CURVE SOLUTIONS AND ECLIPSING TIMING VARIATIONS (ETV) OF THE ECLIPSING KEPLER BINARIES KIC 9532219 AND KIC 9612468
Erkan YILAN
- 17:30 – 17:45** PHOTOMETRIC STUDY OF V2280 CYGNI
Erkan YILAN
- 17:45 – 18:00** PROBING THE SMALL-SCALE STRUCTURE IN STRONGLY LENSED SYSTEMS VIA TRANSDIMENSIONAL INFERENCE
Tansu DAYLAN

**10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 1
ASTROPHYSICS AND COSMOLOGY**

- 09:30 – 11:00** **CHAIR: Orhan DÖNMEZ**
- 09:30 – 09:45** H-ALPHA OBSERVATIONS OF SH2-190, SH2-222, SH2-229, SH2-236 HII REGIONS
Muhittin SAHAN
- 09:45 – 10:00** BIANCHI TYPE-II UNIVERSE IN WEYL MODIFIED THEORY
Değer SOFUOĞLU
- 10:00 – 10:15** ABSOLUTE PARAMETERS AND EVOLUTIONARY MODEL COMPARISON OF
DETACHED ECLIPSING BINARY KIC 8552540
Fahri ALİÇAVUŞ
- 10:15 – 10:30** PHOTOMETRIC DISTANCES FROM WELL-DETACHED ECLIPSING BINARIES AND
COMPARISON THEM WITH HIPPARCOS AND GAIA PARALAXES
Fahri ALİÇAVUŞ
- 10:30 – 10:45** ANALYSIS OF GROUND-BASED OBSERVATIONS OF SOME EXOPLANETS
Çağlar PUSKULLU
- 10:45 – 11:00** TRANSIT ANALYSIS OF THE EXOPLANET HOST KEPLER-485
Çağlar PUSKULLU
- 11:00 – 11:15** **COFFEE BREAK**
- 11:15 – 12:00** **CHAIR: Burcu ÖZKARDEŞ**
- 11:15 – 11:30** ORBITAL PERIOD VARIATIONS OF HW VIRGINIS
Çağlayan NEHİR
- 11:30 – 11:45** THE MERGER DYNAMICS OF BIMODAL GALAXY CLUSTER: ABELL 3653
Turgay CAGLAR
- 11:45 – 12:00** X-RAY AND OPTICAL PROPERTIES OF ULXS IN NGC 4490/4485
Şenay AVDAN

HALL – 2-3-4
ATOMIC AND MOLECULAR PHYSICS

7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 2
ATOMIC AND MOLECULAR PHYSICS - 1

- 15:30 – 16:30** **CHAIR: Alexander ZHUK**
- 15:30 – 16:00** THE HALFIUM MODEL: AB INITIO FORMALISM FOR RYDBERG AND DOUBLY-EXCITED STATES OF H₂ AND SIMILAR MOLECULAR SYSTEMS
Mourad TELMINI – Tunis El Manar University, Tunisia
- 16:00 – 16:15** MOLECULAR STRUCTURE AND VIBRATIONAL SPECTRA OF L-ARGININE SEMI-OXALATE (LASO) BY DENSITY FUNCTIONAL THEORY (DFT) CALCULATIONS
Hacer GÜMÜŞ
- 16:15 – 16:30** QUANTUM CHEMICAL CALCULATIONS ON THE GEOMETRICAL, CONFORMATIONAL, SPECTROSCOPIC AND NONLINEAR OPTICAL PARAMETERS OF 2-HYDRAZINO-6-METHYL-4-(METHOXYMETHYL) -5-NITROPYRIDINE-3-CARBONITRILE
Hacer GÜMÜŞ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Gönül BAŞAR**
- 16:45 – 17:00** BEHAVIOR OF CH₃NO₂ DEPENDING ON FEMTOSECOND LASER BEAM POLARIZATION AT 400 NM
Hamdi Şükür KILIÇ
- 17:00 – 17:15** FEMTOSECOND LASER MASS SPECTROMETRY (FLMS): IDENTIFICATION OF MOLECULAR STRUCTURES WITH SAME MOLECULAR MASS
Hamdi Şükür KILIÇ
- 17:15 – 17:30** COMBINED EXPERIMENTAL (FT-IR, FT-RAMAN, NMR) AND THEORETICAL STUDIES ON THE MOLECULAR STRUCTURE, VIBRATIONAL SPECTRA, SOME ELECTRONIC PROPERTIES OF 4-AMINO-2-METHYL-7-(TRIFLUOROMETHYL)QUINOLONE
Tevfik Raci SERTBAKAN
- 17:30 – 17:45** MOLECULAR ANALYSES OF PENTANE WITH FEMTOSECOND LASER MASS SPECTROMETRY (FLMS)
Yasemin GÜNDOĞDU
- 17:45 – 18:00** MOLECULAR ANALYSES OF PENTANE BY COURTESY OF PRINCIPLE COMPONENT ANALYSIS (PCA)
Yasemin GÜNDOĞDU
- 18:00 – 18:15** ACCURATE ASSESSMENT OF JOULE-THOMSON INVERSION TEMPERATURE AT ZERO PRESSURE BY USING SECOND VIRIAL COEFFICIENT
Elif SOMUNCU
- 18:15 – 18:30** THEORETICAL STUDY OF THIRD VIRIAL COEFFICIENT WITH KIHARA POTENTIAL
Elif SOMUNCU

7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 3
ATOMIC AND MOLECULAR PHYSICS - 2

- 15:30 – 16:30** **CHAIR: Yasemin AKKAYA**
- 15:30 – 15:45** ELECTRON MOMENTUM DISTRIBUTION OF ATOMS USING HARTREE-FOCK-ROOTHAAN METHOD
Telhat ÖZDOĞAN
- 15:45 – 16:00** FOLLOWING ELECTRON IMPACT EXCITATIONS OF SINGLE (Tc, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te) ATOM L SUBSHELLS IONIZATION CROSS SECTION CALCULATIONS BY USING LOTZ'S EQUATION
Mahmut AYDINOL
- 16:00 – 16:15** FOLLOWING ELECTRON IMPACT EXCITATIONS OF SINGLE (As, Se, Br, Kr, Rb, Sr, Y, Zr, Nb, Mo) ATOM L SUBSHELLS IONIZATION CROSS SECTION CALCULATIONS BY USING LOTZ'S EQUATION
Mahmut AYDINOL
- 16:15 – 16:30** REDEFINITION OF SOME QUANTUM LOGIC GATES BY USING THE DIRECT SUM ALGEBRA
Azmi GENÇTEN
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:45** **CHAIR: Aysen E.ÖZEL**
- 16:45 – 17:00** MOLECULAR DYNAMIC, MOLECULAR DOCKING, HOMO-LUMO, MEP AND UV-VIS ANALYSIS OF PHE-TYR DIPEPTIDE FOR THE TREATMENT OF HYPERTENSION
Serda KECEL GUNDUZ
- 17:00 – 17:15** COMPUTATIONAL DESIGN OF IMMUNOGENIC PEPTIDE
Serda KECEL GUNDUZ
- 17:15 – 17:30** CONFORMATIONAL ANALYSIS OF LINEAR AND CYCLIC DIPEPTIDES
Sefa ÇELİK
- 17:30 – 17:45** MOLECULAR MODELING OF –FAGAAGSAKSAAGTASHVSI- PEPTIDE
Yağmur KÖKCÜ
- 17:45 – 18:00** MOLECULAR DYNAMIC SIMULATION OF NAC MOLECULE
Yağmur KÖKCÜ
- 18:00 – 18:15** MOLECULAR DYNAMIC AND DOCKING STUDIES OF RGD PEPTIDE
Bilge BIÇAK
- 18:15 – 18:30** STRUCTURAL ANALYSIS OF –SDKGATLTIKKEAFPAESKS- PEPTIDE
Bilge BIÇAK
- 18:30 – 18:45** A THEORETICAL INVESTIGATION OF SER-HIS DIPEPTIDE
Aliye Demet UFAKSÖĞÜT(DEMİRAG)

7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 4
ATOMIC AND MOLECULAR PHYSICS - 3

- 15:30 – 16:30** **CHAIR: Abdulhalik KARABULUT**
- 15:30 – 15:45** VIBRATIONAL SPECTROSCOPIC STUDIES ON THE HOFMANN-Td-TYPE CLATHRATES: Cd(2mpipz)M(CN)₄.C₆H₆ (M= Cd or Hg)
Celal BAYRAK
- 15:45 – 16:00** TELLURITE GLASSES AS ALTERNATIVE GAMMA SHIELDING MATERIALS
Murat KURUDİREK
- 16:00 – 16:15** IMPROVING THE EFFICIENCY OF HHG CODE BY PARTIAL PARALLELIZATION OF THE TIME PROPAGATOR
Erdi Ata BLEDA
- 16:15 – 16:30** THE INTERACTION OF THE GROUND AND EXCITED STATES OF H@C₆₀ WITH STRONG LASER FIELD
Erdi Ata BLEDA
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Feyza GÜZELÇİMEN**
- 16:45 – 17:00** DICHOTOMY BETWEEN THE BAND AND HOPPING TRANSPORT IN ORGANIC CRYSTALS: INSIGHTS FROM THE EXPERIMENTS
İlhan YAVUZ
- 17:00 – 17:15** ELECTRONIC STRUCTURE, ABSORPTION AND EMISSION ENERGY ANALYSIS OF METHYLDIPHENYLPHOSPHINE OXIDE: UNDER IMPLICIT SOLVENT EFFECT BY LINEAR RESPONSE AND STATE-SPECIFIC PCM-DFT/TD-DFT METHOD
Çağlar KARACA
- 17:15 – 17:30** BELOW-THRESHOLD HARMONIC GENERATION FROM STRONG NON-UNIFORM FIELDS
İlhan YAVUZ
- 17:30 – 17:45** AN EXPERIMENTAL AND THEORETICAL EPR STUDY ON MOLECULE AND RADICAL STRUCTURES OF 2-AMINOISOBUTYRIC ACID
Levent ATEŞ
- 17:45 – 18:00** DFT STUDY ON MOLECULE AND RADICAL STRUCTURES OF METHYL ALCOHOL
Levent ATEŞ

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 2
ATOMIC AND MOLECULAR PHYSICS - 1

- 15:30 – 16:30** **CHAIR: Hamdi ŞÜKÜR KILIÇ**
- 15:30 – 15:45** STATIC POLARIZABILITIES OF CONFINED HYDROGEN ATOM
Yusuf YAKAR
- 15:45 – 16:00** PERTURBATION CALCULATION OF OFF-CENTER HYDROGENIC DONOR
Yusuf YAKAR
- 16:00 – 16:15** FOURIER TRANSFORM OF HYDROGEN TYPE ATOMIC ORBITALS
Niyazi YÜKÇÜ
- 16:15 – 16:30** CALCULATION OF GAUNT COEFFICIENTS
Niyazi YÜKÇÜ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Yusuf YAKAR**
- 16:45 – 17:00** USE OF ONE-RANGE ADDITION THEOREMS OF SELF-FRICTIONAL $\Psi^{(p_1^*)}$
EXPONENTIAL TYPE ORBITALS IN CALCULATION OF OVERLAP INTEGRALS OVER
NONINTEGER SLATER TYPE ORBITALS
Nurşen SEÇKİN GÖRGÜN
- 17:00 – 17:15** CALCULATION OF KINETIC ENERGY INTEGRALS OVER NONINTEGER SLATER
TYPE ORBITALS USING ONE-RANGE ADDITION THEOREMS OF SELF-FRICTIONAL
NONRELATIVISTIC SCALAR ORBITALS
Nurşen SEÇKİN GÖRGÜN
- 17:15 – 17:30** QUTRIT SYSTEM ON SOME TRANSACTIONS IN SWAP GATEWAY
Mehpeyker KOCAKOÇ
- 17:30 – 17:45** THE EFFECT OF EXTERNAL MAGNETIC FIELD ON INCOHERENT DIFFERENTIAL
SCATTERING CROSS-SECTIONS FOR ELEMENTS WITH $20 \leq Z \leq 68$ AT 59,54 KEV
PHOTON ENERGY
Bünyamin ALIM
- 17:45 – 18:00** MAGNETIC FIELD EFFECT ON K-SHELL X-RAY INTENSITY RATIOS OF SOFT
MAGNETIC FE-NI ALLOYS
Bünyamin ALIM
- 18:00 – 18:15** ELEMENTAL ANALYSIS IN CHILI PEPPERS OF GAZIANTEP REGION, TURKE
Canan AKSOY
- 18:15 – 18:30** FLUORESCENCE PARAMETERS OF SUPERCONDUCTING SNINBI LEAD FREE
SOLDERS
Canan AKSOY

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 3
ATOMIC AND MOLECULAR PHYSICS - 2

15:30 – 16:30 CHAIR: Zeki KARTAL

15:30 – 15:45 THEORETICAL INVESTIGATION ON STRUCTURAL, ELECTRONIC AND THE NONLINEAR OPTICAL PROPERTIES OF 2- AND 4-SUBSTITUTED BENZOHYDRAZIDES
Güventürk UĞURLU

15:45 – 16:00 EXPERIMENTAL (FT-IR AND FT - RAMAN) AND THEORETICAL INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF 2,6-DIMETHYLBENZENE BORONIC ACID
Güventürk UĞURLU

16:00 – 16:15 INVESTIGATION OF BOVINE SERUM SAMPLES WITH BRUCellosIS USING ELECTRON SPIN RESONANCE TECHNIQUE
Ülkü SAYIN

16:15 – 16:30 SPECTRAL (EPR, UV-VIS, FT-IR), ANTIMICROBIAL AND DFT ANALYSIS OF NEWLY SYNTHESIZED OXOVANADIUM (IV) COMPLEX OF 2-HYDROXY-5-METHOXYACETOPHENONE THIOSEMICARBAZONE
Ülkü SAYIN

16:30 – 16:45 COFFEE BREAK

16:45 – 18:00 CHAIR: HümeYra PAŞAOĞLU

16:45 – 17:00 MOLECULAR STRUCTURE AND SPECTROSCOPIC PROPERTIES OF A LYSINE-BASED MOLECULE
Emine TANIŞ

17:00 – 17:15 RESPONSE OF HALOGEN-PI INTERACTION IN CH₃Br ... BENZENE COMPLEX TOWARD EXTERNAL ELECTRIC FIELD: A THEORETICAL STUDY
Fatmagül TUNÇ

17:15 – 17:30 PREDICTION OF INTERFERENCE FACTOR FOR HOMONUCLEAR DIATOMIC MOLECULES: N₂, O₂
Zehra Nur ÖZER

17:30 – 17:45 IMPROVING THE PERFORMANCE OF BESSEL TYPE ORBITALS
Murat ERTÜRK

17:45 – 18:00 EFFECT OF NONITERATIVE CONNECTED TRIPLES IN THE COUPLED-CLUSTER CORRECTIONS: SINGLE REFERENCE CALCULATIONS
Murat ERTÜRK

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 4
ATOMIC AND MOLECULAR PHYSICS - 3

- 15:30 – 16:30** **CHAIR: Murat KURUDİREK**
- 15:30 – 15:45** INVESTIGATION OF ELECTROPOLYMERIZED CONDUCTING POLYMER DITHIONE
PYROLE CHARACTERIZATION AND APPLICATION TO SENSORS
Murat YILDIZ
- 15:45 – 16:00** SYNTHESIS, ANTIMICROBIAL, SPECTRAL AND DFT STUDIES WITH MANGANESE
COMPLEX OF 2-HYDROXY-5-METHOXYACETOPHENONE THIOSEMICARBAZONE
Ercan TÜRKKAN
- 16:00 – 16:15** EQUATIONS FOR LOGARITHMIC SPIRAL BENT CRYSTALS FOR X-RAY
DIFFRACTION APPLICATIONS
Cahit KARANFİL
- 16:15 – 16:30** AN ENERGY DISPERSIVE REFLECTOMETER BASED ON POLYCHROMATIC
FOCUSING
Cahit KARANFİL
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Ercan ŞAHİN**
- 16:45 – 17:00** ANGULAR DISTRIBUTION OF ER LA1 AND LA2 LINES FOLLOWING
PHOTOIONIZATION BY LINEARLY POLARIZED SYNCHROTRON RADIATION
Cahit KARANFİL
- 17:00 – 17:15** THEORETICAL NMR AND EPR STUDY OF KETOPROFEN MOLECULE
Halil Uğur TAŞDEMİR
- 17:15 – 17:30** THEORETICAL INFRARED-RAMAN SPECTRA, CONFORMATIONAL STABILITY
AND VIBRATIONAL ASSIGNMENT OF GLYCEROL
Ebru KARAKAŞ SARIKAYA
- 17:30 – 17:45** THEORETICAL CALCULATIONS OF MOLECULAR STRUCTURE AND EPR
PARAMETERS OF METHYL 4-METHYL BENZOATE RADICAL BY DENSITY
FUNCTIONAL METHOD
Ebru KARAKAŞ SARIKAYA
- 17:45 – 18:00** EVALUATION OF MOLECULAR ENERGY VIA THE HARTREE-FOCK SELF
CONSISTENT FIELD
Silay AYTAÇ YÜKÇÜ
- 18:00 – 18:00** COMPUTATION OF KINETIC ENERGY AND NUCLEAR ATTRACTION INTEGRALS
Silay Aytaç YÜKÇÜ
- 18:00 – 18:15** THE INVESTIGATION OF THE ANION EFFECT ON THE STRUCTURE,
SPECTROSCOPIC AND ELECTRONIC FEATURES OF SOME PYRROLIDINIUM BASED
IONIC LIQUIDS
Sibel BİLGİLİ

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 2
ATOMIC AND MOLECULAR PHYSICS - 1**

- 15:30 – 16:30** **CHAIR: Azmi GENÇTEN**
- 15:30 – 15:45** DFT COMPUTATIONS ON MOLECULAR STRUCTURE OF CYANIDIN-3-GLUCOSIDE
Ömer DERELİ
- 15:45 – 16:00** WHY AND HOW IS CONFORMATIONAL ANALYSIS PERFORMED
Ömer DERELİ
- 16:00 – 16:15** THE GROUND STATE PICTURE OF BOSE-EINSTEIN-CONDENSED ATOMS TRAPPED
IN DIMPLE POTENTIALS
Elife Öznur KARABULUT
- 16:15 – 16:30** DYNAMICS OF A SPIN-BOSON MODEL WITH STRUCTURED SPECTRAL DENSITY
Arzu KURT
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:45** **CHAIR: Güldem ÜRER**
- 16:45 – 17:00** CALCULATION OF THE TILT ANGLE AND SUSCEPTIBILITY AS FUNCTION OF
TEMPERATURE AND THE ELECTRIC FIELD CLOSE TO THE Sm A-SmC*
TRANSITION IN C7
Sinan AKSOY
- 17:00 – 17:15** USE OF SLATER TYPE ORBITALS WITH HYPERBOLIC COSINE FOR CALCULATION
OF ISOELECTRONIC SERIES OF ATOMS Be TO Ne
Ercan ŞAHİN
- 17:15 – 17:30** COMPUTATIONAL INVESTIGATION OF 2,6-PYRIDINEDICARBONYL DICHLORIDE
Hatice VURAL
- 17:30 – 17:45** EXPERIMENTAL AND COMPUTATIONAL STUDY OF COPPER(II) COMPLEX WITH 2-
(2,4-DIFLUOROPHENYL)PYRIDINE
Hatice VURAL

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 3
ATOMIC AND MOLECULAR PHYSICS - 2**

- 15:30 – 16:30** **CHAIR: Ömer DERELİ**
- 15:30 – 15:45** A STUDY FOR ALLOWED TRANSITIONS OF HYDROGEN LIKE SOME ACTINIDE IONS
Güldem ÜRER
- 15:45 – 16:00** AN INVESTIGATION FOR LEVEL STRUCTURE OF SOME HYDROGEN LIKE ACTINIDE IONS
Güldem ÜRER
- 16:00 – 16:15** NON-MARKOVIAN MEMORY EFFECTS IN THE DYNAMICS OF OPEN QUANTUM SYSTEMS
Göktuğ KARPAT
- 16:15 – 16:30** TIME-INVARIANT QUANTUM CORRELATIONS IN OPEN QUANTUM SYSTEMS
Göktuğ KARPAT
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Ercan TÜRKKAN**
- 16:45 – 17:00** E2, M1, AND M2 TRANSITION DATA FOR HELIUM-LIKE U AND NP
Murat ARSLAN
- 17:00 – 17:15** SOME FORBIDDEN TRANSITION DATA FOR HELIUM-LIKE AC, TH, AND PA
Murat ARSLAN
- 17:15 – 17:30** A STUDY OF E2, M1, AND M2 TRANSITIONS FOR HELIUM-LIKE BK AND CF
Adem KEÇELİ
- 17:30 – 17:45** AN INVESTIGATION FOR E2, M1, AND M2 TRANSITION PARAMETERS OF HELIUM-LIKE NO AND LR
Eda BALKAYA
- 17:45 – 18:00** A COMPARISON FOR FORBIDDEN TRANSITIONS OF HYDROGEN LIKE ACTINIUM THORIUM, AND PROTACTINIUM
Ufuk BOSTANCI
- 18:00 – 18:15** DETERMINATION OF PHOTON ABSORPTION PARAMETERS OF TI-NI BASED SHAPE MEMORY ALLOYS AT 59.54 KEV
Mine UĞURLU
- 18:15 – 18:30** MAGNETIC FIELD EFFECT ON COHERENT TO INCOHERENT SCATTERING DIFFERENTIAL CROSS-SECTION RATIOS OF MICRO-STRUCTURE 3D FERROMAGNETIC TRANSITION ELEMENTS AT 59.54 KEV
Mine UĞURLU

9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 4
ATOMIC AND MOLECULAR PHYSICS -3

- 15:30 – 16:30** **CHAIR: Hülya KARA SUBAŞAT**
- 15:30 – 15:45** SOLID STATE PHOTOLUMINESCENCE PROPERTIES OF GD(III) COORDINATION POLYMER
Görkem OYLUMLUOĞLU
- 15:45 – 16:00** 1-D COORDINATION POLYMER OF HO(III) WITH NIR LUMINESCENCE BY EFFICIENT CHARGE-TRANSFER LIGAND
Görkem OYLUMLUOĞLU
- 16:00 – 16:15** COMPARISON OF BINDING PROPERTIES OF A NOVEL NON-STEROIDAL ANTI-INFLAMMATORY AGENT AND IBUPROFEN TO CYCLOOXYGENASE-1 AND CYCLOOXYGENASE-2 ENZYMES BY SATURATION TRANSFER DIFFERENCE NUCLEAR MAGNETIC RESONANCE
Nil ERTEKİN BİNBAY
- 16:15 – 16:30** STRUCTURAL ANALYSIS OF SOME NOVEL CHIRAL PHOSPINITE LIGANDS AND THEIR RUTHENIUM COMPLEXES BY NMR
Nil ERTEKİN BİNBAY
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:15** **CHAIR: Gonca ÖZDEMİR TARI**
- 16:45 – 17:00** ENERGY TRANSFER MECHANISM OF TWO LANTHANIDE COORDINATION POLYMERS
Melek ÖZDAŞ BÜTÜN
- 17:00 – 17:15** MAGNETIC PROPERTIES OF MULTI-FUNCTIONAL LANTHANIDE-ORGANIC FRAMEWORKS
Melek ÖZDAŞ BÜTÜN
- 17:15 – 17:30** ROLE OF CHROMOPHORIC POLYDENTATE LIGANDS IN ENHANCEMENT OF LUMINESCENCE OF LN(III) IONS
Mustafa Burak ÇOBAN
- 17:30 – 17:45** A SERIES OF RARE EARTH METAL-ORGANIC FRAMEWORKS: STRUCTURAL AND SENSITIZED NEAR-INFRARED LUMINESCENCE PROPERTIES
Mustafa Burak ÇOBAN
- 17:45 – 18:00** CRYSTALLOGRAPHIC AND OPTICAL STUDIES OF A NEW COORDINATION COMPLEX BASED ON COPPER (II) AND 2-((E)-(2-HYDROXYPROPYLIMINO) METHYL)-4-NITROPHENOL LIGAND
Adem DÖNMEZ
- 18:00 – 18:15** CRYSTALLOGRAPHIC STUDY OF A NOVEL COMPLEX BASED ON ERBIUM (III) AND 5-SULFOSALICYLIC ACID LIGAND
Adem DÖNMEZ

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 2
ATOMIC AND MOLECULAR PHYSICS - 1

- 09:30 – 11:15** **CHAIR: NURŞEN SEÇKİN GÖRGÜN**
- 09:30 – 09:45** EXPERIMENTAL AND QUANTUM MECHANICAL STUDY OF (Z)-N-(2-METHYLPHENYL)-1-[5-(2-NITROPHENYL)FURAN-2-YL]METHANIMINE
Gonca ÖZDEMİR TARI
- 09:45 – 10:00** THE DETERMINATION OF MOLECULAR SCATTERING DIFFERENTIAL CROSS SECTIONS FOR COMPOUNDS OF SOME ESSENTIAL ELEMENTS AT 3.38 \AA^{-1} PHOTON-MOMENTUM TRANSFER
Burcu AKÇA
- 10:00 – 10:15** ELECTRON SPIN RESONANCE STUDY OF SEBACIC ACID DIMETHYL ESTER IRRADIATED AT ROOM TEMPERATURE
Mehmet Fatih AYDIN
- 10:15 – 10:30** SPECTROSCOPIC ANALYSIS FOR STRUCTURAL IDENTIFICATIONS OF ETHYL-6-CHLORONICOTINATE: CYTOTOXIC ACTIVITY ON TRIPLE NEGATIVE BREAST CANCER (MDA-MB-231) AND CERVICAL CANCER (HELA) CELL LINES
Zühre ÇALIŞIR
- 10:30 – 10:45** IN VITRO CYTOTOXIC EVALUATION ON CANCER CELL LINES AND SPECTROSCOPIC ANALYSIS OF METHYL-4-BROMO-2-CHLOROPYRIDINE-3-CARBOXYLATE MOLECULE BY DFT
Zühre ÇALIŞIR
- 10:45 – 11:00** INVESTIGATION OF PHASE TRANSFORMATION OF AMORPHOUS ZINC OXIDE UNDER PRESSURE: A DFT STUDY
Duygu TAHAOĞLU
- 11:00 – 11:15** QUANTUM CHEMICAL, SPECTROSCOPIC AND CRYSTAL STRUCTURE STUDIES OF 1-(2-(3-METHYL-3-PHENYLCYCLOBUTYL)-2-OXOETHYL)-1H-INDOLE-3-CARBALDEHYDE
Betül ACAR
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: GÖRKEM OYLUMOĞLU**
- 11:30 – 11:45** ANALYSIS OF THE XYLENOL ISOMERS BY FEMTOSECOND LASER TIME OF FLIGHT MASS SPECTROMETRY
Abdullah KEPCEOĞLU
- 11:45 – 12:00** INVESTIGATION OF RADIATION EFFECT ON CASSIA ACUTIFOLIA: ESR AND MICROBIOLOGICAL REPORT
Emel ECE
- 12:00 – 12:15** VIBRATIONAL SPECTRA ANALYSIS: NO-CH INTERACTION
Fatih ÖZKALAYCI
- 12:15 – 12:30** A GENERALIZATION OF SUPERDENSE CODING FOR TWO QUDIT STATES
Mikail Doğuş KARAKAŞ

12:30 – 12:45 COMPTON PROFILES OF AR AT DIFFERENT PRESSURES
Erdem ŞAKAR

12:45 – 13:00 EFFECT OF PLASMA NITRIDING AND BORIDING TREATMENTS ON MASS
ATTENUATION COEFFICIENT FOR HARDOX 400 ALLOY
Erdem ŞAKAR

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 3
ATOMIC AND MOLECULAR PHYSICS - 2

- 09:30 – 11:15** **CHAIR: Nevin SÜLEYMANOĞLU**
- 09:30 – 09:45** ONE DIMENSIONAL COORDINATION POLYMER OF ISOPHTHALIC ACID IN MOLECULAR STRUCTURE AND SUPRAMOLECULAR ARCHITECTURE
Tuğba AYCAN
- 09:45 – 10:00** PHOTON INTERACTION PARAMETERS OF BORON CARBIDE (B₄C), BORON OXIDE (B₂O₃) AND BORON NITRIDE (BN) IN THE ENERGY REGION 1 KEV – 100 GEV.
Aytaç LEVET
- 10:00 – 10:15** 1H-PYRAZOLE-3-CARBOXYLIC ACID: EXPERIMENTAL AND COMPUTATIONAL STUDY
Sümeyye ALTÜRK
- 10:15 – 10:30** THE EFFECTS OF EXTERNAL ELECTRICAL DIPS ON THE ANGULAR MOMENTUM AND THE EFFECTIVE POTENTIAL OF DIATOM MOLECULAR SYSTEMS
Ezman KARABULUT
- 10:30 – 10:45** STUDY OF THREE-DIMENSIONAL MOMENTUM IMAGING DURING H₂⁺ PHOTO-FRAGMENTATION
Necati KAYA
- 10:45 – 11:00** LASER INDUCED FIELD-FREE MOLECULAR ALIGNMENT IN DISSIPATIVE MEDIA
Gamze KAYA
- 11:00 – 11:15** ESR AND MICROBIOLOGICAL ANALYSIS OF GAMMA IRRADIATED CERATONIA SILIQUA AND MORUS ALBA
M.Özgür SEZER
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: Alev ER**
- 11:30 – 11:45** A DFT STUDY OF PYRIDINE MOLECULE: ON THE DEPENDENCE OF THE VARIOUS SOLVENT EFFECTS ON THE EPR PARAMETERS
Yavuz EKİNCİOĞLU
- 11:45 – 12:00** STRUCTURAL AND SPECTRAL ANALYSES OF N,N'-(2,2'-DITHIODI-O-PHENYLENE)BIS-(FURAN-2-CARBOXAMIDE)
Özlem SAVAŞ PEKDUR
- 12:00 – 12:15** EXPERIMENTAL AND MOLECULAR MODELING INVESTIGATION OF ISOPROPYL 4-(BIPHENYL-4-YL)-2,6,6-TRIMETHYL-5-OXO-1,4,5,6,7,8-HEXAHYDROQUINOLINE-3-CARBOXYLATE
Özlem SAVAŞ PEKDUR
- 12:15 – 12:30** THEORETICAL INVESTIGATION OF DYNAMICAL PROPERTIES OF TRIMETALLIC PD-PT-AU NANOALLOY CLUSTERS
Ali Kemal GARİP

12:30 – 12:45 MEASUREMENT OF CHEMICAL EFFECTS ON NATURAL WIDTHS OF K LEVEL,
AND WIDTHS OF KA1 AND KA2 X-RAY LINES
Fatma GÜNER

12:45 – 13:00 ELECTROSTATIC PROPERTIES OF HYDROXYAPATITE MOLECULE*
Mehmet Hanifi KEBİROĞLU

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 4
ATOMIC AND MOLECULAR PHYSICS - 3

- 09:30 – 11:15** **CHAIR: Ülkü SAYIN**
- 09:30 – 09:45** HYDROGEN-BONDING NETWORK OF SOLVENT WATER ABOUT COBALT OXIDE WATER OXIDATION CATALYSTS: STRUCTURAL AND DYNAMICAL PROPERTIES
Abdullah ÖZKANLAR
- 09:45 – 10:00** BUILDING WATER MICROSTATES: A MULTILAYERED APPROACH
Abdullah ÖZKANLAR
- 10:00 – 10:15** SYNTHESIS, CRYSTAL STRUCTURES, SPECTROSCOPIC ANALYSIS AND COMPUTATIONAL STUDIES OF (E)-N-((2-ETHOXYNAPHTHALEN-1-YL)METHYLENE)-3-IODO-4-METHYLANILINE AND (E)-3-CHLORO-N-((2-ETHOXYNAPHTHALEN-1-YL)METHYLENE)-4-METHYLANILINE
Muhammet Hakkı YILDIRIM
- 10:15 – 10:30** THREE SCHIFF BASE COMPOUNDS DERIVED FROM 2-ACETYLANILINE IN THE THREE DIFFERENT TAUTOMERIC FORMS: SYNTHESIS AND CHARACTERIZATIONS
Muhammet Hakkı YILDIRIM
- 10:30 – 10:45** STUDIES ON THE SYNTHESIS, SPECTROSCOPIC ANALYSIS AND DFT CALCULATIONS OF (E)-2-[(2-BROMOPHENYLIMINO)METHYL]-4,6-DICHLORO-3-METHOXYPHENOL
Arzu ÖZEK YILDIRIM
- 10:45 – 11:00** SYNTHESIS, EXPERIMENTAL AND THEORETICAL STUDIES OF (E)-4,6-DIBROMO-2-[(2-CHLOROPHENYLIMINO)METHYL]-3-METHOXYPHENOL
Arzu ÖZEK YILDIRIM
- 11:00 – 11:15** INVESTIGATION OF THE EFFECTS OF BETA RAYS ON PHOSPHORESCENT MATERIALS
Eda BAY
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: Cahit KARANFİL**
- 11:30 – 11:45** THE EXPERIMENTAL AND DFT ANALYSIS OF STRUCTURAL AND SPECTROSCOPIC FEATURES OF 4-AMINOBEYZLAMINE
M. Serdar VANLI
- 11:45 – 12:00** STRUCTURE SOLUTION AND RIETVELD REFINEMENT STRATEGIES FOR PHARMACEUTICAL COMPOUNDS BY SYNCHROTRON XRPD
Gülsüm GÜNDOĞDU
- 12:00 – 12:15** TOTAL AND OVERLAP POPULATION DENSITY OF STATES FOR METHOXYMETHYL PEROXY RADICAL
Henar SLEMAN
- 12:15 – 12:30** MOLECULAR STRUCTURE AND CONFORMATIONAL ANALYSIS OF 1-[3-(1H-IMIDAZOL-1-YL)PROPYL]-3-PHENYLTHIOUREA
Ersin DURGUT

- 12:30 – 12:45** MOLECULAR MODELING OF THE LIGAND BINDING TO THE GLUTATHIONE S TRANSFERASE (GST P1)
Emre GURSOY
- 12:45 – 13:00** NEW INVESTIGATIONS ON CLUSTER FORMING IN GASEOUS PARTICLE DETECTORS
Yalçın KALKAN
- 13:00 – 14:00** **BREAK**
- 14:00 – 14:30** **CHAIR: Kubilay BALCI**
- 14:00 – 14:15** EXPERIMENTAL AND COMPUTATIONAL STUDIES OF 4-BROMO-5-METHOXY-2-(P-TOLYLIMINO)METHYL)PHENOL
Melek KOCA
- 14:15 – 14:30** TEMPERATURE BEHAVIOUR OF POEGMA TYPE POLYMER SYSTEMS BY MOLECULAR DYNAMICS IN WATER
Eray DALGAKIRAN

HALL – 5
ENERGY

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 5
ENERGY**

- 15:30 – 16:30** **CHAIR: A. Beril TUĞRUL**
- 15:30 – 15:45** THEORETICAL STUDY ON A VIBRATING LINEAR ENERGY HARVESTER
Erol KURT
- 15:45 – 16:00** DESIGN AND IMPLEMENTATION OF A NEW LINEAR ENERGY HARVESTER
Erol KURT
- 16:00 – 16:15** THE EFFECT OF SAM TREATED ITO/MOO3 ELECTRODE CONFIGURATION ON THE
ORGANIC SOLAR CELL EFFICIENCY
Cem TOZLU
- 16:15 – 16:30** METAL OXIDE SANDWICHED DYE-SENSITIZED SOLAR CELLS
Sunay TÜRKDOĞAN
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Erol KURT**
- 16:45 – 17:00** FABRICATION OF GRAPHENE-TiO₂ NANOSTRUCTURES BASED PHOTOANODE
AND PT-FREE PYRITE COUNTER ELECTRODE
Bayram KILIÇ
- 17:00 – 17:15** FABRICATION AND CHARACTERIZATION OF CUXSEY/POLYPYRROLE
COMPOSITE THIN FILM: INFLUENCE OF DEPOSITION POTENTIAL
Yunus Emre FIRAT
- 17:15 – 17:30** DYNAMIC ANALYSIS OF A NOVEL EXTENDED EXPANSION ENGINE MECHANISM
Onur İNAN
- 17:30 – 17:45** THE EFFECTS OF THERMAL BARRIER COATING ON THE EMISSION OF A DIESEL
ENGINE
Cengiz TEMİZ
- 17:45 – 18:00** THE EFFECTS OF THERMAL BARRIER COATING ON THE PERFORMANCE OF A
DIESEL ENGINE
Cengiz TEMİZ

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL -5
ENERGY

15:30 – 16:30 CHAIR: Gamze KAYA

15:30 – 15:45 HYDROTHERMAL SYNTHESIS OF MNOOH NANOSHEET ARRAYS ON NICKEL FOAM FOR SUPERCAPACITOR APPLICATIONS
Fatma Nur TUZLUCA

15:45 – 16:00 THE EFFECTS OF POWDER FILLER TYPES ON THERMAL INSULATION PERFORMANCE IN VACUUM INSULATION PANELS
Ali Ekrem AKDAĞ

16:00 – 16:15 THE PHYSICAL AND MECHANICAL PROPERTIES OF CORES PRODUCED BY DIFFERENT POWDERS IN VACUUM INSULATION PANELS
Ali Ekrem AKDAĞ

16:15 – 16:30 EFFECT OF CHEMICAL SOLVENTS ON THE PROPERTIES OF AL-DOPED ZnO THIN FILMS SYNTHESIZED BY SPIN COATING TECHNIQUE
Aycan ATLI

16:30 – 16:45 COFFEE BREAK

16:45 – 17:30 CHAIR: Yunus ÖZEN

16:45 – 17:00 CUO NANOWIRES SYNTHESIZED THROUGH THERMAL OXIDATION OF COPPER FOAM FOR SUPERCAPACITOR APPLICATIONS
Yaşar Özkan YEŞİLBAĞ

17:00 – 17:15 EFFECT OF Zn/S MOLAR RATIO ON THE PHYSICAL PROPERTIES OF SPRAY-PYROLYSED ZnS THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS
Esra KUŞ

17:15 – 17:30 SUBSTRATE TEMPERATURE EFFECT ON THE STRUCTURAL, MORPHOLOGICAL, OPTICAL AND ELECTRICAL PROPERTIES OF SPRAY-DEPOSITED ZINC SULPHIDE THIN FILMS
Esra KUŞ

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 5
ENERGY**

- 15:30 – 16:30** **CHAIR: Fatma Nur TUZLUCA**
- 15:30 – 15:45** CDTE/CDS SOLAR CELL STRUCTURE WITH MoO₃/Au BACK CONTACT
Barış KINACI
- 15:45 – 16:00** THE PRODUCTION OF MULTI JUNCTION III-V PHOTOVOLTAIC DEVICES
Yunus ÖZEN
- 16:00 – 16:15** TiO₂/DyE/CuI AND ZnO/DyE/CuI SENSITIZED SOLID-STATE SOLAR CELLS
Süleyman KERLİ
- 16:15 – 16:30** A BROADBAND METAMATERIAL ABSORBER WITH ELECTRIC FIELD DRIVEN LC
RESONATORS FOR SOLAR CELL APPLICATIONS
Fulya BAGCI
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:45** **CHAIR: Cem TOZLU**
- 16:45 – 17:00** IONIC CONDUCTION PERFORMANCE OF OXIDE SEMICONDUCTORS
Musa M. CAN
- 17:00 – 17:15** THE INVESTIGATION OF THE CONVERSION EFFICIENCY OF QUANTUM DOT
NANOCRYSTAL BASED SOLAR CELLS
Hatice TAŞ
- 17:15 – 17:30** THEORETICAL INSIGHTS ON MECHANISM FOR OXYGEN REDUCTION REACTION
AT S-N DUAL-DOPED GRAPHENE
Berna AKGENC
- 17:30 – 17:45** FIRST-PRINCIPLE CALCULATION OF OXYGEN DIFFUSION IN YTRRIA-STABILIZED
ZIRCONIA
Berna AKGENC

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL -5
ENERGY

- 09:30 – 11:15** **CHAIR: Atilla EVCİN**
- 09:30 – 09:45** MICROSTRIP PATCH ANTENNAS COVERED WITH CHIRAL METAMATERIAL STRUCTURES
Mehmet BAĞMANCI
- 09:45 – 10:00** WIDEBAND METAMATERIAL ABSORBER BASED ON WHEEL RESONATORS FORMICROWAVE ENERGY HARVESTING
Mehmet BAĞMANCI
- 10:00 – 10:15** THE STUDY ON ANTIMONY DIFFUSION IN GALLIUM-DOPED GERMANIUM GROWN BY CZOCHRALSKI TECHNIQUE
Veysel BARAN
- 10:15 – 10:30** EFFICIENCY ANALYSIS OF SOLAR ENERGY USAGE IN RENEWABLE ENERGY SOURCES: KIRŞEHİR EXAMPLE
Dilek FERUDUN
- 10:30 – 10:45** LIQUID COOLING APPLICATIONS ON AUTOMOTIVE EXTERIOR LED LIGHTING
Mehmet AKTAŞ
- 10:45 – 11:00** DESIGN OF A DUAL BAND METAMATERIAL ABSORBER FOR WI-FI BANDS
Fatih Özkan ALKURT
- 11:00 – 11:15** FIRE DETECTION BEHIND A WALL BY USING MICROWAVE TECHNIQUES
Fatih Özkan ALKURT
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 12:00** **CHAIR: Bayram KILIÇ**
- 11:30 – 11:45** THE EFFECT OF SI ON THERMOELECTRIC EFFICIENCY OF GAASN ALLOYS
Yusuf YILDIZ
- 11:45 – 12:00** EASY PRODUCTION OF P-TYPE CDSE ABSORBER LAYER BY CO ELECTRODEPOSITION
Hasan BAYRAMOĞLU

HALL – 6
PHYSICS EDUCATION AND PHILOSOPHY

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 6
PHYSICS EDUCATION AND PHILOSOPHY**

- 15:30 – 16:30** **CHAIR: Zeynel Abidin YILMAZ**
- 15:30 – 15:45** THE EFFECT OF STATION TECHNIQUE IN ASTRONOMY TOPIC ON STUDENTS' ACADEMIC ACHIEVEMENTS AND THEIR ATTITUDES TOWARDS ASTRONOMY
Paşa YALÇIN
- 15:45 – 16:00** DETERMINATION OF LEVELS OF UNDERSTANDING OF MASS AND WEIGHT CONCEPTS OF PRIMARY TEACHER CANDIDATES
Murat AYDIN
- 16:00 – 16:15** PROJECT EFFECT IN TEACHING OF PHYSICS TOPICS
Murat YILDIZ
- 16:15 – 16:30** STUDENTS' ATTITUDES AND APPROACHES TO PROBLEM SOLVING SURVEY: A CASE STUDY FROM THE PHYSICS COMPETITION
Boce MITREVSKI
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:15** **CHAIR: Murat AYDIN**
- 16:45 – 17:00** THE IMPACT OF THE CLASSICAL-MODERN PHYSICS "BOUNDARY LINE" ON SOCIAL-CULTURAL THEORIES
Alper DİZDAR
- 17:00 – 17:15** DEVELOPING FOUR-TIER SIMPLE ELECTRIC CIRCUITS ALTERNATIVE CONCEPTS TEST FOR GIFTED STUDENTS
Havva GÜNEŞ
- 17:15 – 17:30** THE EFFECT OF ONTOLOGICAL CATEGORY EDUCATION CONCEPTUAL CHANGE METHOD ON ALTERNATIVE CONCEPTIONS OF GIFTED STUDENTS ON SIMPLE ELECTRIC CIRCUITS
Havva GÜNEŞ
- 17:30 – 17:45** PRE-SERVICE TEACHERS' METAPHORICAL PERCEPTIONS OF "PHYSICS" AS A CONCEPT
Sevim BEZEN
- 17:45 – 18:00** LEARNING PROGRESS OF UNIVERSITY STUDENTS IN A FLIPPED PHYSICS I LABORATORY COURSE
Fatma Nur AKI
- 18:00 – 18:15** EXAMINATION OF THE RELATIONSHIP BETWEEN SCIENTIFIC REASONING SKILLS AND PROBLEM SOLVING SKILLS ON BASIC MECHANICS OF PRESERVICE SCIENCE TEACHERS
İbrahim YÜKSEL
- 18:15 – 18:30** COMPARING ELEMENTARY SCHOOL STUDENTS' ANSWERS TO THE CONTEXT-BASED AND TRADITIONAL QUESTIONS IN THE TOPIC OF LIGHT BY GENDER
Merve SAK

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 6
PHYSICS EDUCATION AND PHILOSOPY**

- 15:30 – 16:30** **CHAIR: Özlem ERYILMAZ MUŞTU**
- 15:30 – 15:45** EVALUATION OF RESEARCHES RELATED TO VIRTUAL PHYSICS LABORATORY APPLICATIONS
Özden KARAGÖZ-MIRÇIK
- 15:45 – 16:00** VIRTUAL LABORATORY APPLICATIONS IN PHYSICS EDUCATION
Özden KARAGÖZ-MIRÇIK
- 16:00 – 16:15** THE EFFECTS OF PREDICTION OBSERVATION EXPLANATION (POE) METHOD ON SCIENCE TEACHER TRAINING PROGRAM TEACHER CANDIDATES' SUCCESS IN TEACHING GEOMETRIC OPTICAL SUBJECTS AND THEIR ATTITUDES TOWARDS PHYSICS LABORATORY
İbrahim YÜKSEL
- 16:15 – 16:30** DEVELOPMENT OF A GUIDANCE MATERIAL FOR PHYSICS, CHEMISTRY AND BIOLOGY TEACHERS IN NANOSCIENCE AND NANOTECHNOLOGY TEACHING
Zeki İPEK
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:15** **CHAIR: Muhammet Serdar ÇAVUŞ**
- 16:45 – 17:00** INVESTIGATION OF SECONDARY SCHOOL STUDENTS' COGNITIVE STRUCTURE RELATED TO THE CONCEPT OF ATOM THROUGH THE DRAWING TECHNIQUE
Özlem ERYILMAZ MUŞTU
- 17:00 – 17:15** THE USE OF ANALOGY IN THE DETERMINATION OF THE PRE-SERVICE SCIENCE TEACHERS' COGNITIVE STRUCTURES ABOUT THE CONCEPT OF ATOM
Özlem ERYILMAZ MUŞTU

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 6
PHYSICS EDUCATION AND PHILOSOPHY**

- 15:30 – 16:30** **CHAIR: Hande KARADENİZ**
- 15:30 – 15:45** FROM MATTER TO MATTER, MIND TO MIND, GOD TO GOD -THE SNAKE EATING ITSELF
Muhammet Serdar ÇAVUŞ
- 15:45 – 16:00** THE EFFECTS OF EINSTEIN’S PASSION FOR MUSIC ON HIS SCIENTIFIC CREATIVITY
Figen DURKAYA
- 16:00 – 16:15** THE VIEWS OF SCIENCE TEACHERS REGARDING THE USE OF METHODS AND TECHNIQUES IN SCIENCE TEACHING (A SAMPLE OF KİLİS)
Zeynel Abidin YILMAZ
- 16:15 – 16:30** THE VIEWS OF PROSPECTIVE SCIENCE TEACHERS ON AUGMENTED REALITY APPLICATIONS IN EDUCATION
Zeynel Abidin YILMAZ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: İbrahim KÜÇÜKKARA**
- 16:45 – 17:00** OPINIONS OF SCIENCE TEACHER CANDIDATES CONCERNING PROVING AND DETERMINATION OF THE LEVEL OF THEIR BELIEF IN THEIR SELF-EFFICACY
Figen DURKAYA
- 17:00 – 17:15** PROSPECTIVE PHYSICS TEACHERS' CONCEPTIONS ON THE CAMPFIRE: A PHENOMENOGRAPHIC STUDY
Yasemin DOĞAN
- 17:15 – 17:30** DETERMINING THE UNDERSTANDING LEVELS OF PRE-SERVICE PHYSICS TEACHERS ABOUT MAGNETIC INDUCTION
Tuğbanur DİNÇER
- 17:30 – 17:45** ARGUMENTATION WITH COUNTERINTUITIVE PHYSICS QUESTIONS: PARTICIPANTS' VIEWS AND CRITICS
Özlem AYDIN ŞENGÜLEÇ
- 17:45 – 18:00** THE EFFECT OF ARGUMENTATION-BASED LABORATORY IMPLEMENTATION ON PARTICIPANTS' PERCEPTIONS REGARDING ARGUMENTATION
Özlem AYDIN ŞENGÜLEÇ

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 6
PHYSICS EDUCATION AND PHILOSOPHY

- 09:30 – 11:15** **CHAIR: Paşa YALÇIN**
- 09:30 – 09:45** INVESTIGATING HIGH SCHOOL STUDENTS' COGNITIVE STRUCTURES ABOUT
WORK CONCEPT
Erdem TAVUKÇUOĞLU
- 09:45 – 10:00** STEM EDUCATION COURSE MATERIAL: FARADAY'S LAW
Atakan ÇOBAN
- 10:00 – 10:15** THE USE OF SMARTPHONES IN PHYSICS EDUCATION: MEASUREMENT OF OPEN
AIR SOUND SPEED
Atakan ÇOBAN
- 10:15 – 10:30** THE EFFECT OF STEM EDUCATION ON SCIENCE PROCESS SKILLS AND STEM
AWARENESS IN SIMULATION BASED INQUIRY LEARNING ENVIRONMENT
Esra DUYGU
- 10:30 – 10:45** THE OPINIONS OF SCIENCE TEACHER CANDIDATES ABOUT STEM EDUCATION IN
SIMULATION BASED INQUIRY LEARNING ENVIRONMENT
Esra DUYGU
- 10:45 – 11:00** THE OPINIONS OF STUDENTS ABOUT STEM EDUCATION IN PROBLEM BASED
LEARNING ENVIRONMENT
Mısra ALICI
- 11:00 – 11:15** THE EFFECTS OF INQUIRY BASED LEARNING ON STUDENTS' CONCEPTUAL
UNDERSTANDING REGARDING TO COLOURS AND COLORS FORMATION
Aysun BEYHAN
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: Figen DURKAYA**
- 11:30 – 11:45** DETERMINATION OF CONCEPTUAL UNDERSTANDING OF PROSPECTIVE PHYSICS
TEACHERS CONCERNING CIRCULAR MOTION
Gizem GEDİZ
- 11:45 – 12:00** AN INTEGRATIVE APPROACH TO THE DEVELOP PRACTISING SKILLS OF PHYSICS
PRE-SERVICE TEACHERS REGARDING THE LABORATORY APPLICATIONS
Elif KARAL
- 12:00 – 12:15** DETERMINATION OF AWARENESS ABOUT INDOOR RADON CONCENTRATION
EFFECT OF SAKARYA UNIVERSITY STUDENTS AND PERSONNEL
Nilüfer DEMİRCİ SAYGI
- 12:15 – 12:30** DETERMINATION OF CONCEPTUAL UNDERSTANDING LEVELS OF PHYSICS
TEACHER CANDIDATES' CONCERNING MECHANICAL WAVES
Cihan KORKMAZ

- 12:30 – 12:45** STEM EDUCATION COURSE MATERIAL: REFLECTION AND PERISCOPE CONSTRUCTION
Mert BÜYÜKDEDE
- 12:45 – 13:00** THE USE OF SMARTPHONES IN PHYSICS EDUCATION: MEASUREMENT OF ACCELERATION AND CALCULATION OF SPRING CONSTANT
Mert BÜYÜKDEDE

HALL – 7
STATISTICAL PHYSICS

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 7
STATISTICAL PHYSICS**

15:30 – 16:30 CHAIR: Ahmet ÇELİKOĞLU

15:30 – 15:45 ANISOTROPIC HEISENBERG MODEL FOR THE MIXED SPIN-2 AND SPIN-1/2 IN THE OGUCHI APPROXIMATION ON SQUARE AND SIMPLE CUBIC LATTICES
Erhan ALBAYRAK

15:45 – 16:00 THE SPIN-1 BLUME-CAPEL MODEL ON THE BETHE LATTICE IN THE +/- J DISTRIBUTION WITH AN ADJUSTABLE PARAMETER BETWEEN FM AND AFM PHASES
Erhan ALBAYRAK

16:00 – 16:15 INVESTIGATION OF THE CLOSED CRITICAL LOOPS IN BINARY ASYMMETRIC MIXTURES BY USING AN INTERMEDIATE MODEL
Mustafa GENÇASLAN

16:15 – 16:30 GLOBAL PHASE DIAGRAMS UNDER THE NEGATIVE PRESSURE OF POLYMER SOLUTIONS AT AND NEAR THE CROSSING POINTS
Ümmügülsüm SEVER

16:30 – 16:45 COFFEE BREAK

16:45 – 17:30 CHAIR: Erhan ALBAYRAK

16:45 – 17:00 CRITICAL PHASE BEHAVIOURS UNDER THE NEGATIVE PRESSURE OF THE POLYMER SOLUTIONS AT AND NEAR THE MATHEMATICAL DOUBLE POINTS
Derya ÖZTÜRK

17:00 – 17:15 EFFECTS OF A SILENCED GENE IN BOOLEAN NETWORK MODELS
Emir HALİKİ

17:15 – 17:30 WEIGHTED NETWORK ANALYSIS OF OUT-GROUP CANDIDATES IN A PHYLOGENETIC TREE OF B. BASSIANA
Emir HALİKİ

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 7
STATISTICAL PHYSICS**

15:30 – 16:30 CHAIR: Mustafa GENÇASLAN

**15:30 – 15:45 THE TRIPLE HYSTERESIS BEHAVIOR OF Ni₅₀Mn₃₆Sn₁₄ HEUSLER ALLOY
Ayşe DURAN**

**15:45 – 16:00 MAGNETIC PROPERTIES OF THE CARBON-60 FULLERENE CAGE
Ayşe DURAN**

**16:00 – 16:15 SEISMIC NETWORK ANALYSIS: THE ANATOLIAN CASE
Ahmet ÇELİKOĞLU**

**16:15 – 16:30 ORDER-DISORDER DYNAMIC PHASE TRANSITION IN A MAGNETIC SYSTEM
DRIVEN BY A TIME DEPENDENT OSCILLATING MAGNETIC FIELD
Erol VATANSEVER**

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Ayşe DURAN

**16:45 – 17:00 PHASE TRANSITION PROPERTIES OF A BINARY ALLOY CYLINDRICAL
NANOWIRE: A MONTE CARLO SIMULATION STUDY
Zeynep DEMİR VATANSEVER**

**17:00 – 17:15 MAGNETIC BEHAVIOR OF LOW DIMENSIONAL SPIN-1/2, SPIN-3/2 AND SPIN-5/2
ISING MODELS
Aycan ÖZKAN**

**17:15 – 17:30 MAGNETIC BEHAVIOR OF THE SPIN-3 ISING MODEL
Aycan ÖZKAN**

**17:30 – 17:45 INVESTIGATION OF THE EFFECT OF VEGETATION ON THE LAND SURFACE
TEMPERATURE USING REMOTE SENSING TECHNIQUES THE CENTRAL DISTRICT
OF ÇANAKKALE
Sinan ALLAK**

HALL – 8
MATHEMATICAL PHYSICS

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 8
MATHEMATICAL PHYSICS**

15:30 – 16:30 CHAIR: Ertan GÜDEKLİ

15:30 – 16:00

Ratbay MYRZAKULOV – L. N. Gumilyov Eurasian National University, Kazakhstan

16:00 – 16:15

HAMILTONIAN EQUATION FOR PHYSICAL COMPONENTS OF THE DKP WAVE-FUNCTION

Boutabia-Chéraitia BOUTHEINA

16:15 – 16:30

ON THE ASYPTOTIC ANALYSIS OF THE JWKB METHOD VIA CHANGE OF DEPENDENT VARIABLE IN THE 1ST ORDER BESSEL'S EQUATION

Coşkun DENİZ

16:30 – 16:45

COFFEE BREAK

16:45 – 18:15

CHAIR: Can AKTAŞ

16:45 – 17:00

DIRAC-WEYL EQUATION WITH DEFORMED COMPLEX POTENTIALS

Özlem YEŞİLTAŞ

17:00 – 17:15

DYNAMICS OF TACHYONIC DARK ENERGY MODELS BY CONSIDERING THERMODYNAMIC FEATURES

Emine Canan GÜNAY DEMİREL

17:15 – 17:30

DARK MATTER AND DARK ENERGY SOLUTIONS USING BY OBSERVATIONAL EVIDENCE

Emine Canan GÜNAY DEMİREL

17:30 – 17:45

HYPERCOMPLEX NUMBER REPRESENTATION OF ENERGY CONSERVATION FOR DYONIC PLASMA SYSTEM

Mustafa Emre KANSU

17:45 – 18:00

RELATIVISTIC FORM OF GENERALIZED FIELDS WITH SEDENION ALGEBRA

Mustafa Emre KANSU

18:00 – 18:15

APPLICATIONS OF THE NONCONSERVATIVE VECTOR EQUATION OF TRANSFER

Menekşe ŞENYİĞİT

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 8
MATHEMATICAL PHYSICS**

- 15:30 – 16:30** **CHAIR: Göksel DAYLAN ESMER**
- 15:30 – 15:45** ACCELERATING WAVES IN PT SYMMETRIC SYSTEMS
Cem YÜCE
- 15:45 – 16:00** REFORMULATION PLASMA EQUATIONS IN TERMS OF BIQUATERNIONS
Süleyman DEMİR
- 16:00 – 16:15** BINDING ENERGIES OF MANY ELECTRON QUANTUM DOTS
Bekir ÇAKIR
- 16:15 – 16:30** ELECTRIC FIELD EFFECT ON SPHERICAL QUANTUM DOT
Bekir ÇAKIR
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:30** **CHAIR: Arzu ÇİLLİ**
- 16:45 – 17:00** CALCULATION OF THE DIFFUSION COEFFICIENT USING INFINITE MEDIUM
GREEN'S FUNCTION
Mustafa BİÇER
- 17:00 – 17:15** INVESTIGATION OF THE MILNE PROBLEM WITH HN METHOD USING DIFFERENT
SCATTERING FUNCTIONS
Ahmet ERSOY
- 17:15 – 17:30** DARK ENERGY AND GRAVİTATIONAL EFFECTS OF KERR-DE SİTTER BLACK
HOLES
Orhan AYDİLEK

9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 8
MATHEMATICAL PHYSICS

15:30 – 16:30 CHAIR: Süleyman DEMİR

15:30 – 15:45 CHAPLYGIN GAS SOLUTIONS IN $F(R,T)$ GRAVITY FOR GÖDEL TYPE UNIVERSE MODEL
Can AKTAŞ

15:45 – 16:00 MAGNETIZED STRANGE QUARK MATTER SOLUTIONS FOR MARDER TYPE UNIVERSE IN $F(R,T)$ THEORY
Can AKTAŞ

16:00 – 16:15 DESIGNING TERNARY QUANTUM OPERATORS FOR GROVER'S SEARCH ALGORITHM WITH FPGAS
Ibrahim SAVRAN

16:15 – 16:30 ACCELERATING QUANTUM FOURIER TRANSFORM ON GPUS
Ibrahim SAVRAN

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Coşkun DENİZ

16:45 – 17:00 INVESTIGATION INHOMOGENOUS DARK FLUID IN TELEPARALLELISM
Ertan GÜDEKLİ

17:00 – 17:15 THE ROTATION KINETIC ENERGY OF THE PLATONIC SOLIDS WITH GEOMETRIC ALGEBRA
Abidin KILIC

17:15 – 17:30 SOLUTION OF LOCAL FRACTIONAL KLEIN-GORDON EQUATION
Hale KARAYER

17:30 – 17:45 SOLUTIONS OF LOCAL FRACTIONAL SINE-GORDON EQUATIONS
Hale KARAYER

HALL – 9
MEDICAL PHYSICS

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 9
MEDICAL PHYSICS**

15:30 – 16:30 CHAIR: Fatih ŐEN

15:30 – 15:45 DETERMINATION OF COPPER, CADMIUM, LEAD AND MERCURY LEVELS IN HUMAN PLACENTA BY ICP-OES
Ömer SÖĖÜT

15:45 – 16:00 INVESTIGATION OF CHANGES IN BLOOD CELLS BY LASER BEAM SCATTERING METHOD
Süleyman YILMAZ

16:00 – 16:15 INVESTIGATION OF INTERACTION MECHANISM OF ADP-RIBOSYLATING TOXINS WITH NICOTIN ADENINE DINUCLEOTIDE USING BIOPHYSICAL METHODS
Ayhan ÜNLÜ

16:15 – 16:30 DOSIMETRIC INVESTIGATION OF SMALL SIZE TUMORS IRRADIATED IN RADIOSURGERY DEVICES
DUYGU Tunçman GENÇ

16:30 – 16:45 INTERNAL RADIATION DOSIMETRY OF YTTRIUM-90 MICROSPHERE THERAPY
Handan TANYILDIZI

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 9
MEDICAL PHYSICS**

15:30 – 16:30 CHAIR: Aytaç LEVET

15:30 – 15:45 CALCULATING BOLTZMAN-GIBBS ENTROPY BASED ON WAVELET TRANSFORM FOR PNEUMOCARDIOGRAM SIGNALS OF RATS
Tamer ZEREN

15:45 – 16:00 THE TECHNICAL FEATURES TO KNOW BEFORE BUYING EYEGLOSS LENSES
Fatih ŐEN

16:00 – 16:15 INTRA-FRACTION MOTION OF LARYNX RADIOTHERAPY
İsmail Faruk DURMUS

16:15 – 16:30 DOSIMETRIC METHODS IN RADIONUCLIDE TREATMENTS
Ahu ÖZKAN

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Salih DURDU

16:45 – 17:00 DETERMINATION OF ELECTROMAGNETIC POLLUTION LEVEL IN THE MALATYA STREET OF ELBISTAN COUNTY
Halil İbrahim Kaptan

17:00 – 17:15 MEASUREMENT OF THE OPTICAL PENETRATION DEPTH IN CALF-LIVER TISSUE AT 635 NM
Yaşar Barış DOLUŐAN

17:15 – 17:30 OPTICAL CHARACTERIZATION OF HUMAN MYOMETRIUM TISSUES
Dilek ERDAŐ

17:30 – 17:45 TARGET DESİGNS FOR ELECTRON-GAMMA CONVERSION TO BE USED IN TUMOR THERAPY
Murat ERDOŐDU

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL -9
MEDICAL PHYSICS**

- 15:30 – 16:30 CHAIR: Tamer ZEREN**
- 15:30 – 15:45** ELEMENTAL ANALYSIS OF HUMAN PLACENTA AND RELATIONSHIP BETWEEN NEWBORN WEIGHT AND TRACE ELEMENTS
Aytaç LEVET
- 15:45 – 16:00** BIOLOGICAL PROPERTIES OF Ag-BASED BIOCERAMIC COATINGS FORMED ON ZIRCONIUM BY MICRO ARC OXIDATION AND THERMAL EVAPORATION
Salih DURDU
- 16:00 – 16:15** MODELING WITH COMSOL 5.2A: FE₃O₄ NANO-PARTICLE TEMPERATURE DISTRIBUTION FOR CANCER THERAPY
Rosario Lissiet ROMERO CORIPUNA
- 16:15 – 16:30** DEVELOPMENT OF RADIATION WARNING DEVICE (PET FINDER)
Ertuğrul ÖZKAN
- 16:30 – 16:45 COFFEE BREAK**
- 16:45 – 18:00 CHAIR: Gökhan OTO**
- 16:45 – 17:00** STATISTICAL PARAMETRIC MAPPING IN FUNCTIONAL MAGNETIC RESONANCE IMAGING (FMRI)
Hacer DAŞGIN
- 17:00 – 17:15** ASSESSMENT OF NON-GAUSSIAN DIFFUSION-WEIGHTED MRI: COMPARING THE USE OF DIFFERENT PULSE SEQUENCES IN HIGH B-VALUES
Ziyafer Gizem PORTAKAL
- 17:15 – 17:30** THE SELECTION OF APPROPRIATE PARAMETERS ON SPIN ECHO IMAGING TECHNIQUES USED FOR DIAGNOSIS OF BRAIN TUMORS WITH MRI
Yalda ZEKİRİ
- 17:30 – 17:45** DEVELOPMENT OF INDEPENDENT MU/TREATMENT TIME VERIFICATION ALGORITHM FOR NON-IMRT TREATMENT PLANNING: A CLINICAL EXPERIENCE
Hamza TATLI
- 17:45 – 18:00** POST MODEL MLC ADJUSTMENT/VERIFICATION OF MONTE CARLO BASED BEAM MODEL: A CLINICAL EXPERIENCE
Hamza TATLI

HALL – 10-11
NUCLEAR PHYSICS

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 10
NUCLEAR PHYSICS -1**

- 15:30 – 16:30** **CHAIR: Rıza OĞUL**
- 15:30 – 16:00** NUCLEAR PHYSICS EXPERIMENTS WITH GAMMA BEAMS AT ELI-NP
Catalin MATEI – IFIN-HH/ELI-NP, Romania
- 16:00 – 16:15** EXPERIMENTAL CROSS SECTION INVESTIGATION OF SN ISOTOPES FOR
THE ASTROPHYSICAL P-PROCESS WITHIN COST/CHETEC
Nalan ÖZKAN GÜRAY
- 16:15 – 16:30** HALF-LIFE MEASUREMENTS FOR ELEMENT SYNTHESIS IN NUCLEAR
ASTROPHYSICS
Caner YALÇIN
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Şeref TURHAN**
- 16:45 – 17:00** MEASUREMENTS OF CHARGED PARTICLE INDUCED REACTION CROSS SECTIONS
ON PROTON-RICH NUCLEI
Recep Taygun GÜRAY
- 17:00 – 17:15** CALCULATIONS OF PHOTONEUTRON REACTION CROSS SECTIONS OF SOME
URANIUM ISOTOPES
İsmail Hakkı SARPÜN
- 17:15 – 17:30** THEORETICAL CROSS SECTION OF ALPHA PARTICLE INDUCED NUCLEAR
REACTIONS ON ¹¹¹CD
Nurdan KARPUZ DEMİR
- 17:30 – 17:45** PHOTO-NEUTRON CROSS SECTION CALCULATIONS OF SELECTED STEEL
COMPONENTS
Ömer Faruk ÖZDEMİR
- 17:45 – 18:00** COUPLED-CHANNEL ANALYSES ON ¹⁶O+^{147,148,150,152,154}SM HEAV-ION FUSION
REACTIONS
Burcu EROL

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 11
NUCLEAR PHYSICS -2**

- 15:30 – 16:30** **CHAIR: Nihal BÜYÜKÇİZMECİ**
- 15:30 – 15:45** THE ENERGY SHIFT OBSERVED USING A MOSSBAUER EXPERIMENT IN A ROTATING SYSTEM
Lidya SUSAM
- 15:45 – 16:00** ^{232}Th , ^{40}K , ^{22}Na , ^{152}Eu , ^{226}Ra AND ^{207}Bi RADIONUCLIDES ANALYSIS IN HUMAN PLACENTA ACCORDING TO AGE GROUPS
Ömer SÖĞÜT
- 16:00 – 16:15** PRODUCTION OF MEDICAL AC-225 IN PROTON ACCELERATOR
Ozan ARTUN
- 16:15 – 16:30** BOHR HAMILTONIAN FOR GAMMA=30 WITH THE KRATZER POTENTIAL
Burcu UÇAR
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:45** **CHAIR: Nalan ÖZKAN GÜRAY**
- 16:45 – 17:00** STUDY OF YB ISOTOPES WITH THE COHERENT STATE FORMALISM
İlyas İNCİ
- 17:00 – 17:15** STUDY OF TRIAXIAL NUCLEI WITH THE MORSE POTENTIAL
İlyas İNCİ
- 17:15 – 17:30** ROLE OF USING TRANSLATIONAL AND GALILEAN INVARIANT QRPA IN THE INTERPRETATION OF THE ELECTRIC DIPOLE EXCITATIONS
Hüseyinqulu QULIYEV
- 17:30 – 17:45** DIPOLE RESPONSE OF THE DOUBLE EVEN ^{184}W NUCLEUS
Hüseyinqulu QULIYEV

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 10
NUCLEAR PHYSICS -1**

- 15:30 – 16:30** **CHAIR: Necati ÇELİK**
- 15:30 – 15:45** PRODUCTION OF NEUTRON-RICH EXOTIC NUCLEI ABOVE THE COULOMB BARRIER
Rıza OĞUL
- 15:45 – 16:00** FISSION OF HYPERNUCLEI AT SUBNUCLEAR DENSITIES
Nihal BÜYÜKÇİZMECİ
- 16:00 – 16:15** SHELL MODEL DESCRIPTION OF THE 0+ AND 0- STATES IN SD SHELL NUCLEI
Mouna BOUHELAL
- 16:15 – 16:30** LATTICE SIMULATIONS FOR NUCLEAR STRUCTURE AND NUCLEAR SCATTERING
Serdar ELHATISARI
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:30** **CHAIR: Recep Taygun GÜRAY**
- 16:45 – 17:00** ZERO BIAS GAMMA IRRADIATION EFFECTS ON Yb₂O₃ MOS DEVICES
Ayşegül KAHRAMAN
- 17:00 – 17:15** COMPARISON OF TWO PULSE PILE-UP CORRECTION METHODS
Salih Mustafa KARABIDAK
- 17:15 – 17:30** STUDIES ON ENERGY AND EFFICIENCY CALIBRATION OF ALPHA SPECTROSCOPY
SYSTEM
Nurgül HAFIZOĞLU

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 11
NUCLEAR PHYSICS -2

15:30 – 16:30 CHAIR: Ömer SÖĞÜT

15:30 – 15:45 RADIATION DAMAGE EFFECTS IN EACH ISOTOPE OF THE CERTAIN PLUTONIUM MIXED FLUIDS FOR A HYBRID REACTOR
Mehtap GÜNAY

15:45 – 16:00 THREE-DIMENSIONAL MONTE CARLO COMPARISON ON THE NUCLEAR PARAMETERS OF EACH ISOTOPE IN THE CERTAIN PLUTONIUM MIXED FLUIDS
Mehtap GÜNAY

16:00 – 16:15 COMPARATIVE STUDY OF ACTINIDE TRANSMUTATION AND FISSION PRODUCTS RATES OF PWR AND WWER REACTORS
Akbar ABBASÍ

16:15 – 16:30 A COMBINED METHOD FOR HEAT CAPACITY STUDY ON URANIUM NITRIDE
Ebru ÇOPUROĞLU

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Salih Mustafa KARABIDAK

16:45 – 17:00 CONTINUOUS WAVE MODE OSL (CW-OSL) PROPERTIES OF QUARTZITE MINERAL
Tamer DOĞAN

17:00 – 17:15 TRAP DEPTH ESTIMATION OF THE 225 OC THERMOLUMINESCENCE MAXIMUM OF NATURAL TRIDYMITE USING INITIAL RISE AND VARIOUS HEATING RATE METHODS
Sümevra BALCI YEGEN

17:15 – 17:30 TEMPERATURE DEPENDENCE OF HYPERNUCLEI DISTRIBUTIONS
Ayşegül KAYA

17:30 – 17:45 PROPERTIES OF THE SCISSORS MODE IN THE ODD-MASS 151-161GD ISOTOPES
Gamze HOŞGÖR

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 10
NUCLEAR PHYSICS -1**

- 15:30 – 16:30** **CHAIR: Abidin KILIÇ**
- 15:30 – 15:45** THEORETICAL CALCULATIONS OF DOUBLE DIFFERENTIAL NEUTRON EMISSION CROSS SECTIONS OF ^{209}Bi AT 14.2 MEV INCIDENT NEUTRON ENERGY
Eyyup TEL
- 15:45 – 16:00** SYSTEMATIC STUDY OF RADIOACTIVE ALPHA CAPTURE (α, Γ) REACTIONS FOR STABLE TITANIUM ISOTOPES IN PHYSICS
Zehra Merve CİNAN
- 16:00 – 16:15** EFFECTS OF IONIZING RADIATION ON THE TCO THIN FILMS AND MONO-CRYSTALLINE SOLAR CELLS
Ramazan ŞAHİN
- 16:15 – 16:30** EVALUATED P, D, T, ^3He , AND ^4He PRODUCTION CROSS-SECTION DATA FOR NATTI IRRADIATED WITH NEUTRONS AT ENERGIES UP TO 3 GEV
Sibel AKÇA
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Necati ÇELİK**
- 16:45 – 17:00** CROSS SECTION CALCULATIONS FOR GAMMA-INDUCED NUCLEAR REACTIONS ON $^{90,91,92,94}\text{Zr}$
Osman AĞAR
- 17:00 – 17:15** PROTON CAPTURE REACTION CROSS SECTION MESARUMENTS ON ^{114}Sn , ^{115}Sn AND ^{116}Sn ISOTOPES
Seda KUTLU
- 17:15 – 17:30** DEVELOPMENT OF NEUTRON SHIELDING CONCRETE CONTAINING IRON CONTENT MATERIALS
Demet SARIYER
- 17:30 – 17:45** HIGH CONSISTENCY HEAVYWEIGHT BARITE CONCRETE SHIELDING PROPERTIES FOR CS137 RADIATION SOURCE
H. Süleyman GÖKÇE
- 17:45 – 18:00** COMPARISON OF BACKGROUND RADIATION LEVELS BETWEEN ANTALYA AND KARAMAN IN TURKEY
Canel EKE

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 11
NUCLEAR PHYSICS -2**

15:30 – 16:30 CHAIR: Mehtap GÜNAY

**15:30 – 15:45 TRUE COINCIDENCE SUMMING CORRECTION FOR ^{60}Co WITH EGS4 SYSTEM
Necati ÇELİK**

**15:45 – 16:00 GAMMA TRANSMISSION METHOD FOR THE USE OF VOLUMETRIC WATER
CONCENTRATION IN SOIL
Necati ÇELİK**

**16:00 – 16:15 MEASUREMENT OF ENVIRONMENTAL GAMMA DOSE RATES IN ADIYAMAN CITY
CENTER
Mehmet Fatih AYDIN**

**16:15 – 16:30 INDOOR ENVIRONMENT ^{222}Rn MEASUREMENT IN MANY DEPARTMENTS OF
GİRESUN UNIVERSITY
Firdevs Banu ÖZDEMİR**

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Aysegül KAHRAMAN

**16:45 – 17:00 GROSS ALPHA AND BETA ACTIVITIES IN DRINKING WATERS OF KIRIKKALE
Pelin OTANSEV**

**17:00 – 17:15 DETERMINATION OF NATURAL AND ARTIFICIAL RADIOACTIVITY
CONCENTRATIONS IN SOIL SAMPLES COLLECTED FROM THE VICINITY OF
KELKIT-GÜMÜŞHANE
Selim KAYA**

**17:15 – 17:30 ASSESSMENT OF GROSS ALPHA AND BETA ACTIVITY IN DRINKING WATERS OF
GÜMÜŞHANE, TURKEY
Selim KAYA**

**17:30 – 17:45 INVESTIGATION OF THE RELATIONSHIP BETWEEN RADON ANOMALIES IN DEEP
WATER RESOURCES NEAR AKŞEHİR FAULT ZONE AND THE RADIAL DISTANCES
OF THE SOURCES TO AN EARTHQUAKE CENTER
Ayla GÜMÜŞ**

**10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 10
NUCLEAR PHYSICS-1**

- 09:30 – 11:15** **CHAIR: Derya YILMAZ BAYSOY**
- 09:30 – 09:45** LIFETIME MEASUREMENTS AND REDUCED B(E2) TRANSITION PROBABILITIES IN THE NEUTRON-DEFICIENT OS AND W NUCLEI
Bahadır SAYGI
- 09:45 – 10:00** GIANT DIPOLE RESPONSE OF EVEN-EVEN DEFORMED NUCLEUS 184W
Nilüfer DEMİRCİ SAYGI
- 10:00 – 10:15** DETERMINATION OF RADIOACTIVITY LEVELS OF SALT MINERALS ON THE MARKET
Zeynep YÜKSEL
- 10:15 – 10:30** CORRELATION AND GEOSTATISTICAL ANALYSIS OF NATURAL RADIONUCLIDES IN THE SOIL AND ROCKS OF THE ORHANELI GRANITIC PLUTON
Buket CANBAZ ÖZTÜRK
- 10:30 – 10:45** LIFETIME MEASUREMENTS WITH THE DSAM TECHNIQUE
Aysegul ERTOPRAK
- 10:45 – 11:00** EXAMINATION OF RADIATION DOSE INTERACTION OF WALNUT WOOD MATERIALS
Yusuf KAVUN
- 11:00 – 11:15** NATURAL RADIOACTIVITY ANALYSIS IN WASTE OF YATAĞAN COAL FIRED POWER PLANT
AYDAN ALTIKULAÇ
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:15** **CHAIR: Pelin OTANSEV**
- 11:30 – 11:45** MEASUREMENT OF RADON GAS IN BANANA GREENHOUSES IN THE PROVINCE OF MERSİN, DISTRICT BOZYAZI
EMEL YILDIRIM
- 11:45 – 12:00** RADON CONCENTRATION MEASUREMENTS IN FRUIT JUICES USING ALPHAGUARD RADON DETECTOR
Pınar İSEL
- 12:00 – 12:15** NATURAL AND ARTIFICIAL RADIOACTIVITY CONCENTRATIONS OF SOIL SAMPLES OF DILOVASI DISTRICT OF KOCAELİ, TURKEY
Sevda Senem GÜNEŞ
- 12:15 – 12:30** STUDY OF NATURAL RADIOACTIVITY IN ESKİSEHIR
Ali OLKUN

- 12:30 – 12:45** SYNTHESIS AND THERMOLUMINESCENCE PROPERTIES OF TB³⁺-DOPED ZINC BORATE PHOSPHORS
Onur GEZER
- 12:45 – 13:00** NUCLEAR REACTIONS CALCULATIONS OF BORON TARGET NUCLEI USING SEMI-EMPIRICAL FORMULA
Meltem POYRAZ
- 13:00 – 13:15** THEORETICAL INVESTIGATION OF CLUSTER RADIOACTIVITY
Ezgi KURNAZ

HALL – 12-13
APPLIED PHYSICS

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 12
APPLIED PHYSICS - 1**

15:30 – 16:30 CHAIR: Hacı SOĞUKPINAR

**15:30 – 16:00 TAILORING SPONTANEOUS EMISSION
Emre YÜCE – Middle East Technical University, Turkey**

**16:00 – 16:15 CUORE FAST COOLING SYSTEM
Carmine ELVEZIO PAGLIARONE**

**16:15 – 16:30 OPTIMIZED IRON OXIDE NANOPARTICLES SYNTHESIZED BY CO-PRECIPIRATION
Öznur KARAAĞAÇ**

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Şahin YAKUT

**16:45 – 17:00 CO₂ AS A REFRIGERANT IN FOOD REFRIGERATION
Andreas HEGGLIN**

**17:00 – 17:15 SYNTHESIS, STRUCTURE AND ANTICANCER ACTIVITY OF 3-(2-HYDROXYETHYL)-
1-(3-AMINOPROPYL)-1H-IMIDAZOLE-3-IUM BROMIDE
Gühergül ULUÇAM**

**17:15 – 17:30 ENHANCED TRANSMITTANCE AND RESISTIVITY OF Y DOPED ZnO
NANOPARTICLES DEPENDING ON Y CONCENTRATION
Neslihan ÜZAR**

**17:30 – 17:45 DIOGNOSIS OF SOME PARAMETERS OF LASER INDUCED BREAKDOWN
Arzu KURT**

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 13
APPLIED PHYSICS - 2**

15:30 – 16:30 CHAIR: Gönül ERYÜREK

ŞİŞECAM SESSION

- 15:30 – 15:45** IN LINE MAGNETRON SPUTTERING GROWTH AND CHARACTERIZATION OF Ga-DOPEDED ZnO THIN FILMS
Öcal TUNA
- 15:45 – 16:00** GLASS PROCESSING BY A FEMTOSECOND FIBER LASER
Türkay YILDIZ
- 16:00 – 16:15** EFFECT OF ZnO SEED LAYER DEPOSITION PARAMETERS ON Ag BASED MULTILAYER THIN FILM PROPERTIES
Sinem ERASLAN AVCIOĞLU
- 16:15 – 16:30** INVESTIGATION OF PHYSICAL AND MECHANICAL PROPERTIES OF TiO₂ – SiO₂ NANOCOMPOSITE THIN FILMS PREPARED BY SOL – GEL METHOD
Ezgi Deniz BİÇER
- 16:30 – 16:45** LASER MICROMACHINING OF SILICATE GLASSES AND TRANSPARENT THIN FILM COATINGS ON GLASS SUBSTRATES: SELECTED EXAMPLES FROM ŞİŞECAM.
Osman Burak OKAN
- 16:45 – 17:00 COFFEE BREAK**
- 17:00 – 18:00 CHAIR: Hulusi Kemal ULUTAŞ**
- 17:00 – 17:15** INVESTIGATION OF HALF-METALLICITY OF FULL-HEUSLER COMPOUND - IR₂MnSi
Evren Görkem ÖZDEMİR
- 17:15 – 17:30** AN AB INITIO STUDY ON HALF-METALLIC STATES AND MAGNETIC PROPERTIES OF Mn₂IrAl AND V₂IrAl ALLOYS
Evren Görkem ÖZDEMİR
- 17:30 – 17:45** THE BEHAVIOR OF THE CURRENT AND PLASMA RADIATION IN AN IR IMAGE CONVERTER WITH INP ELECTRODE
Evrin TANRIVERDİ
- 17:45 – 18:00** ONE-POT SYNTHESIS OF SURFACTANT COATED IRON OXIDE NANOPARTICLES: CHARACTERIZATION, STABILIZATION AND TOXICITY
Fatmahan ÖZEL
- 18:00 – 18:15** SOLID PHASE EPITAXIAL THICKENING OF PHOSPHORUS AND BORON DOPED POLYCRYSTALLINE SILICON SEED LAYERS FORMED BY ALUMINIUM INDUCED CRYSTALLIZATION TECHNIQUE
Özge TÜZÜN ÖZMEN

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 12
APPLIED PHYSICS - 1

- 15:30 – 16:30** **CHAIR: Özge TÜZÜN ÖZMEN**
- 15:30 – 15:45** IMPLEMENTATION OF DIFFERENT TURBULENCE MODEL TO FIND PROPER MODEL TO ESTIMATE AERODYNAMIC PROPERTIES OF AIRFOILS
Ismail BOZKURT
- 15:45 – 16:00** NUMERICAL CALCULATION OF AERODYNAMICS WIND TURBINE BLADE S809 AIRFOIL AND COMPARISON OF THEORETICAL CALCULATIONS WITH EXPERIMENTAL MEASUREMENTS AND CONFIRMING WITH NREL DATA
Ismail BOZKURT
- 16:00 – 16:15** THE EFFECTS OF NACA 0012 AIRFOIL MODIFICATION ON AERODYNAMIC PERFORMANCE IMPROVEMENT AND OBTAINING HIGH LIFT COEFFICIENT AND POST-STALL AIRFOIL
Haci SOĞUKPINAR
- 16:15 – 16:30** ESTIMATION OF SUPERSONIC FIGHTER JET AIRFOIL DATA AND LOW SPEED AERODYNAMIC ANALYSIS OF AIRFOIL SECTION AT THE MACH NUMBER 0.15
Haci SOĞUKPINAR
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Ümit ALKAN**
- 16:45 – 17:00** A VISUAL ANALYSIS OF THE 2D PROJECTILE MOTION BY COMPUTABLE DOCUMENT FILES
Coşkun DENİZ
- 17:00 – 17:15** THERMOLUMINESCENCE PROPERTIES OF THE SAMPLES COLLECTED FROM MEKE CRATER LAKE IN KONYA, TURKEY
Hüseyin TOKTAMIŞ
- 17:15 – 17:30** DETERMINATION OF RELATION BETWEEN SOME AIR POLLUTANTS AND SUNSHINE DURATION
Mine Tülin ZATEROĞLU
- 17:30 – 17:45** CARBON FIBER: AS AN ALTERNATIVE MATERIAL FOR GAMMA-RAY SHIELDING
Levent PEHLİVAN
- 17:45 – 18:00** INFLUENCE OF MULTI-AIRFOIL ON AERODYNAMIC PROPERTIES OF MW SCALE WIND TURBINE BLADE DESIGN
Mahmut TEPE

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 13
APPLIED PHYSICS - 2

15:30 – 16:30 CHAIR: Ayşegül KAHRAMAN

15:30 – 15:45 STRUCTURAL AND PHOTOLUMINESCENCE PROPERTIES OF RARE EARTH TRIDOPED YTTRIA NANOCRYSTALS UNDER IR EXCITATION
Gönül ERYÜREK

15:45 – 16:00 INVESTIGATION OF EFFECTS OF CUO ADDITION ON STRUCTURAL AND MECHANICAL PROPERTIES OF ZnO SEMICONDUCTORS
Kemal KOCABAŞ

16:00 – 16:15 MAGNETIC AND STRUCTURAL PROPERTIES OF SPUTTERED Ni/Al SUPERLATTICES DEPENDING ON THICKNESS OF MAGNETIC LAYER
Ali KARPUZ

16:15 – 16:30 CHARACTERIZATIONS OF SPUTTERED 4[Fe(5NM)/Al(45NM)] MULTILAYER: THE IMPACT OF HIGH AND LOW RATES
Ali KARPUZ

16:30 – 16:45 COFFEE BREAK

16:45 – 18:15 CHAIR: Nevin KALKAN

16:45 – 17:00 DIELECTRIC PROPERTIES OF THALLIUM GALLIUM SULFIDE (TlGaS₂) MATERIAL
Deniz Deger ULUTAS

17:00 – 17:15 BEHAVIOUR OF AC CONDUCTIVITY OF TlGaS₂ BULK AND THIN FILMS
Hulusi Kemal ULUTAŞ

17:15 – 17:30 AC CONDUCTIVITY OF HYDROPHOBIC SILICA AEROGELS
Deniz BOZOĞLU

17:30 – 17:45 A COMPARISON OF DIELECTRIC PROPERTIES OF TlGaS₂ BULK AND THIN FILM SAMPLES
Deniz BOZOĞLU

17:45 – 18:00 COMPARISON OF DC AND AC CONDUCTIVITY OF POLYESTER COMPOSITE FILMS DOPED BY POLYPYRROLE AND COFE₂O₄ NANOPARTICLES
Ezgi ÖZTÜRK YILMAZ

18:00 – 18:15 A COMPARISON OF AC CONDUCTIVITY FOR BULK AND THIN FILM TlGaS₂ SAMPLES
Şahin YAKUT

9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 12
APPLIED PHYSICS - 1

15:30 – 16:30 CHAIR: Hüseyin TOKTAMIŞ

15:30 – 15:45 NUMERICAL STUDY OF ACOUSTIC TAMM SURFACE STATES OF THREE-DIMENSIONAL PHONONIC CRYSTALS
Bülent ULUÇ

15:45 – 16:00 POST DEPOSITION ANNEALING EFFECTS ON THE ELECTRICAL CHARACTERISTICS OF ER2O3 MOS CAPACITORS
Ayşegül KAHRAMAN

16:00 – 16:15 MAGNETOELECTRIC EFFECT IN A CIRCULAR MAGNETIZED FERROMAGNETIC-PIEZOELECTRIC DISK STRUCTURE
Yuri FETISOV

16:15 – 16:30 SONICATION OF DEXTRAN SOLUTION: EFFECT OF ULTRASOUND INTENSITY AND TEMPERATURE
Onur İNAN

16:30 – 16:45 COFFEE BREAK

16:45 – 17:30 CHAIR: Aynur AKER

16:45 – 17:00 DIRECT NANO-PATTERNING OF THIN FILMS FOR PLASMONIC AND OPTO-ELECTRONIC APPLICATIONS THROUGH FEMTOSECOND LASER ABLATION
Ramazan ŞAHİN

17:00 – 17:15 PREPARATION AND CHARACTERIZATION OF COBALT DIFFUSED EX-SITU AND IN-SITU MgB₂ BULK SAMPLES
Asaf Tolga ULGEN

17:15 – 17:30 SUPERCONDUCTOR RESEARCHERS AND TECHNOLOGY APPLICATIONS IN TURKEY
Asaf Tolga ULGEN

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 13
APPLIED PHYSICS - 2**

15:30 – 16:30 CHAIR: Ali KARPUZ

15:30 – 15:45 THE EFFECT OF X % WT. Y211 (X = 20, 30 AND 40) ADDITION ON PINNING MECHANISM OF THE TSMG YBCO GROWN ON Y₂O₃ LAYER
Bakiye ÇAKIR

15:45 – 16:00 SYNTHESIS OF GOLD NANOPARTICLES BY ELECTROHYDRODYNAMIC DISCHARGE
Bekir ORUNCAK

16:00 – 16:15 DESIGN AND SIMULATION OF A WEARABLE TEXTILE ANTENNA BASED ON METAMATERIAL STRUCTURE
Erkan TETİK

16:15 – 16:30 EFFECT OF GAMMA IRRADIATION ON SUPERCONDUCTING PROPERTIES OF MONOFILAMENTARY Fe/MgB₂ WIRES
Fırat KARABOĞA

16:30 – 16:45 COFFEE BREAK

16:45 – 18:00 CHAIR: Macide CANTÜRK RODOP

16:45 – 17:00 EFFECT OF HELIUM ON SYSTEM CHARACTERISTICS IN THE MICRODISCHARGE SYSTEM
Fuat KARİP

17:00 – 17:15 OPTICAL WIRELESS COMMUNICATION
Mehmet ADIYAMAN

17:15 – 17:30 CHAIN SCISSION OF POLYVINYLPYRROLIDONE BY SOLUTION PLASMA PROCESS: EFFECT OF POLYMER CONCENTRATION
Mehmet ÖZKAN

17:30 – 17:45 MODELING OF LASER TRAPPING AND MANIPULATION OF ESCHERICHIA COLI BACTERIA
Necla KENAR

17:45 – 18:00 EFFECT OF HF CONCENTRATION TO MORPHOLOGY OF POROUS SILICON SURFACE
Sevinç GÜLER

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 12
APPLIED PHYSICS - 1

09:30 – 11:15 **CHAIR: Polat TOPUZ**

09:30 – 09:45 MECHANICAL AND DIELECTRIC PROPERTIES OF LOW DENSITY
POLYETHYLENE/BORAX COMPOSITES
Ümit ALKAN

09:45 – 10:00 MEASUREMENTS OF ELECTRICAL AND THERMAL PROPERTIES OF THE Al-Si-X
ALLOYS
Aynur AKER

10:00 – 10:15 INVESTIGATION OF SUPERCONDUCTING PROPERTIES OF IN-SITU FE/MGB2
MULTIFILAMENTARY WIRES VIA MONOCORE WIRES OBTAINED BY HIGH
INITIAL FILLING DENSITY
Fırat KARABOĞA

10:15 – 10:30 EFFECT ON ANNEALING TEMPERATURE OF ITO THIN FILMS DEPOSITED BY DC
SPUTTERING IN AR AND AR-O2 GAS AMBIANCES
Nermin KUTLU

10:30 – 10:45 SENSING PROPERTIES OF FLUORINE-DOPED ZINC OXIDE THIN FILMS
Gökhan ALGÜN

10:45 – 11:00 INFLUENCE OF THE MOLAR CONCENTRATION ON FLUORINE-DOPED ZINC OXIDE
THIN FILMS
Namık AKÇAY

11:00 – 11:15 PHASE TRANSITIONS AND THE EFFECT OF ANNEALING TEMPERATURE ON TL,
CW-OSL AND LM-OSL SIGNALS USING MERCK QUARTZ
Şule KAYA KELEŞ

11:15 – 11:30 **COFFEE BREAK**

11:30 – 13:00 **CHAIR: Nalan ÇİÇEK BEZİR**

11:30 – 11:45 QUARTZ CRYSTAL MICROBALANCE INVESTIGATION OF ENZYME BASED
BIOSENSORS
Murat EVYAPAN

11:45 – 12:00 SYNTHESIS AND CHARACTERIZATION OF HIGH QUALITY RED EMITTING
CSPBBRXI3-X PEROVSKITE QDS
Yemliha ALTINTAS

12:00 – 12:15 OPTICAL PROPERTIES OF HIGH QUALITY CD-FREE CUINS, CUINGAS AND
ZNAGINS QUANTUM DOTS
Yemliha ALTINTAS

12:15 – 12:30 SYNTHESIS, STRUCTURAL CHARACTERIZATION AND PHYSICAL PROPERTIES OF
Fe₂O₃+EPOXY RESIN AND Fe₃O₄+ BENTONITE/EPOXY RESIN NANOCOMPOSITES
Ulkar SAMADOVA

- 12:30 – 12:45** ESTIMATION OF SEDIMENT ACCUMULATION RATES USING NATURALLY OCCURRING ²¹⁰PB MODELS AND HEAVY METAL MEASUREMENTS IN GÜLBAHÇE BAY
İlker SERT
- 12:45 – 13:00** INVESTIGATION OF THE RELATION BETWEEN SEDIMENT ACCUMULATION RATE, HEAVY METAL POLLUTION AND LEAD-ISOTOPES IN KARAGÖL SEDIMENT CORES
İlker SERT

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
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APPLIED PHYSICS - 2

09:30 – 11:15 **CHAIR: Erkan TETİK**

09:30 – 09:45 TUNING RANGE AND BANDWIDTH MEASUREMENTS OF AN ULTRA-COLD EXTERNAL CAVITY DIODE LASER (ECDL) SYSTEM
Bariş POLAT

09:45 – 10:00 TEMPERATURE CONTROL AND HEAT TRANSFER CALCULATIONS OF A THERMO-ELECTRICALLY COOLED EXTERNAL CAVITY DIODE LASER (ECDL) SYSTEM
Bariş POLAT

10:00 – 10:15 INVESTIGATION OF DEPOSITION RATE EFFECT ON STRUCTURAL AND MAGNETIC PROPERTIES OF FECR ALLOY THIN FILMS PRODUCED BY A SPUTTERING TECHNIQUE
Birol KAYA

10:15 – 10:30 INVESTIGATION OF THE EFFECT OF PVP POLYMER ON THE TEXTURE STRUCTURE OF SDS + WATER LIQUID CRYSTAL SYSTEM
Esin ŞEN

10:30 – 10:45 LUMINESCENT PROPERTIES OF CERIUM DOPED BOROGERMANATE GLASSES
Gözde BURGAZ

10:45 – 11:00 THE EFFECT OF THE MAGNETIC PROPERTIES ON THE DEPOSITION RATE OF FeCrMn ALLOY THIN FILMS PRODUCED BY SPUTTERING
Nadir KAPLAN

11:00 – 11:15 OPTICAL CHARACTERIZATION OF HUMAN TISSUES FOR PHOTODYNAMIC THERANOSTIC APPLICATIONS
Nedret EROL

11:15 – 11:30 **COFFEE BREAK**

11:30 – 13:00 **CHAIR: Bülent ULUĞ**

11:30 – 11:45 THE MEASUREMENT OF TENSILE STRENGTH, DSC, SEM AND EDX PROPERTIES OF SN-BI-IN-ZN ALTERNATIVE LEAD-FREE SOLDER ALLOYS
Pinar ATA ESENER

11:45 – 12:00 SWITCHING MECHANISM IN NEW GENERATION EMBEDDED NON-VOLATILE MEMORIES
Serdar Burhan TEKİN

12:00 – 12:15 DETERMINATION OF OPTIMAL TRAPPING PARAMETERS OF RED BLOOD CELLS
Yasemin KARADEMİRÇİ

12:15 – 12:30 EUROPIUM DOPED BOROGERMANATE GLASSES
Deniz KOÇYİĞİT USLU

12:30 – 12:45 EFFECT OF NATURAL WEATHERING CONDITIONS ON THE DYNAMIC BEHAVIOR OF WOVEN ARAMID COMPOSITES
Ali İhsan KAYA

- 12:45 – 13:00** PREPARATION AND CHARACTERIZATION OF TL- SUPERCONDUCTOR COMPOUNDS
Ali AL-JANABI
- 13:00 – 14:00** **BREAK**
- 14:00 – 14:30** **CHAIR: Gökhan ALGÜN**
- 14:00 – 14:15** THE THEORETICAL AND CRYSTALLOGRAPHIC STUDIES ON (E)-2-(((4-BROMO-2-(TRIFLUOROMETHOXY)PHENYL)IMINO)METHYL)-4-NITROPHENOL
Güneş DEMİRTAŞ
- 14:15 – 14:30** WHITE LIGHT PRODUCTION FROM ND³⁺ DOPED YTTRIUM SILICATE NANOPHOSPHOR
Hatun ÇINKAYA

HALL – 14-15-16
CONDENSED MATTER PHYSICS

7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 14
CONDENSED MATTER PHYSICS - 1

- 15:30 – 16:30** **CHAIR: Mehmet BİBER**
- 15:30 – 15:45** CURRENT CHARACTERISTICS OF THE GaAs/In_xGa_{1-x}As/Al_xGa_{1-x}As/In_yGa_{1-y}As/AlAs/GaAs RESONANT TUNNELING STRUCTURE
Şevket Erol OKAN
- 15:45 – 16:00** BEHAVIOR OF AN ELECTRON IN A CYLINDRICAL AlAs/GaAs/Al_x(Ga_{1-x}As) QUANTUM WELL WIRE UNDER THE INFLUENCE OF AN EXTERNAL AZIMUTHAL MAGNETIC FIELD
Figen KARACA BOZ
- 16:00 – 16:15** ELECTRONIC AND OPTICAL PROPERTIES IN A CYLINDRICAL GaN/AlGaN QUANTUM WELL WIRE UNDER LASER FIELD
Figen KARACA BOZ
- 16:15 – 16:30** ENERGY STATES OF AN ELECTRON IN THE MULTIPLE SQUARE QUANTUM WELL WIRES UNDER THE EXTERNAL FIELDS
Şaban AKTAŞ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:45** **CHAIR: Aynur ÖZCAN**
- 16:45 – 17:00** THE INSULATOR RADIUS EFFECT ON THE BINDING ENERGY OF A COAXIAL CYLINDRICAL QUANTUM WELL WIRE UNDER THE ELECTRIC AND THE MAGNETIC FIELDS
Hülya KES
- 17:00 – 17:15** THE ENERGY AND THE WAVE FUNCTION RELATED TO THE IMPURITY POSITION IN A COAXIAL CYLINDRICAL QUANTUM WELL WIRE UNDER THE INFLUENCE OF THE ELECTRIC FIELD
Hülya KES
- 17:15 – 17:30** PHOTOLUMINESCENCE STUDY OF GaAs/AlGaAs AND GaSb/AlGaAs MODULATED DOPED QUANTUM WELL STRUCTURES
Ferhat NUTKU
- 17:30 – 17:45** REGULAR AND CHAOTIC BEHAVIOURS IN THE GROSS-PITAIEVSKII EQUATION
Eren TOSYALI
- 17:45 – 18:00** INVESTIGATION OF SHOCK WAVES IN THE GROSS-PITAIEVSKII EQUATION
Eren TOSYALI
- 18:00 – 18:15** FABRICATION AND CHARACTERIZATION OF TiO₂/CuO NANO HETEROSTRUCTURES SOLAR CELLS
Bayram KILIÇ
- 18:15 – 18:30** Ni AND Mg - DOPED α-Fe₂O₃ BY CHEMICAL SPRAY PYROLYSIS (CSP) METHOD
Sevda SARITAŞ

18:30 – 18:45 OPTIMIZATION OF AzO/NiOX AND AzO/MoO₃ SUBSTRATES FOR PEROVSKITE SOLAR CELLS
Günay MERHAN MUĞLU

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 15
CONDENSED MATTER PHYSICS - 2**

- 15:30 – 16:30** **CHAIR: Süleyman YILMAZ**
- 15:30 – 15:45** MAGNETIC PROPERTIES OF NANOSTRUCTURED FEW-LAYER GRAPHENE ON SIC(001)
Victor ARISTOV
- 15:45 – 16:00** DYNAMIC AND MECHANICAL PROPERTIES OF $TiCr_3$ AND $TiOs_3$ FROM FIRST PRINCIPLES CALCULATIONS
Nihat ARIKAN
- 16:00 – 16:15** EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES AND STRUCTURE OF STAINLESS STEEL 12CR18NI10TI AFTER ELECTROLYTIC-PLASMA CARBONITRIDING
Ali CORUH
- 16:15 – 16:30** NEW COMPOSITE GYROTROPIC METAMATERIAL
Ali CORUH
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Sema BİLGE OCAK**
- 16:45 – 17:00** A BRIEF REVIEW OF SURFACE TENSION AND SURFACE TENSION ASSESSMENT OF Ag-Au-Cu TERNARY AND SUB BINARY ALLOY SYSTEMS
Hüseyin ARSLAN
- 17:00 – 17:15** MODELING MAGNETIC BEHAVIOUR OF ARTIFICIAL SUPERSTRUCTURES WITH IN-PLANE PERIOD
Caner DEĞER
- 17:15 – 17:30** MAGNETIC PROPERTIES OF TRILAYER (FM/NM/FM) SYSTEM FOR SPIN TRANSFER TORQUE APPLICATIONS
Taner KALAYCI
- 17:30 – 17:45** FIRST-PRINCIPLES STUDY OF ELECTRONIC AND DYNAMIC PROPERTIES OF AUMNIN COMPOUND
Selgin AL
- 17:45 – 18:00** STUDY OF STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF MG AND PB DOUBLE-DOPED CDO FILMS
Raşit AYDIN
- 18:00 – 18:15** MICROSTRUCTURE AND TRANSFORMATION CHARACTERISTICS OF Ti-BASED SHAPE MEMORY ALLOYS
Öznur BAĞ
- 18:15 – 18:30** EFFECTS OF CU ADDITION ON TRANSFORMATION TEMPERATURE AND ACTIVATION ENERGY OF Ti-V-AL LIGHTWEIGHT HIGH TEMPERATURE SHAPE MEMORY ALLOYS
Öznur BAĞ

7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 16
CONDENSED MATTER PHYSICS - 3

- 15:30 – 16:30** **CHAIR: İbrahim Halil MUTLU**
- 15:30 – 15:45** NITROGEN DOPED SILICON-CARBON MULTILAYER PROTECTIVE COATINGS ON CARBON OBTAINED BY TVA METHOD
Victor CIUPINA
- 15:45 – 16:00** MONTE CARLO STUDY: STRUCTURE AND MAGNETIC BEHAVIOUR OF THE BIMETALLIC ALLOYS PTPD
Muhammet ARUCU
- 16:00 – 16:15** LASER-INDUCED MAGNETIZATION PROCESS IN FERRIMAGNETIC GdFe THIN FILMS AND GdFe/Fe MULTILAYERED FILMS
Muhammet ARUCU
- 16:15 – 16:30** LIGHT SCATTERING BY DISCOTIC LIQUID CRYSTALS
Süleyman YILMAZ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:45** **CHAIR: Birkan SELÇUK**
- 16:45 – 17:00** INVESTIGATION OF TA DOPED FTO FILMS WITH SPRAY PYROLYSIS
Adem KOÇYİĞİT
- 17:00 – 17:15** A STUDY ON PR-CONTRIBUTION EFFECT ON F-INCORPORATED TIN OXIDE
Adem KOÇYİĞİT
- 17:15 – 17:30** INVESTIGATION OF FREQUENCY AND VOLTAGE DEPENDENT DIELECTRIC PROPERTIES, ELECTRIC MODULUS AND ELECTRICAL CONDUCTIVITY IN THE Au/(Zn-DOPED PVA)/N-GaAs (MPS) CAPACITORS USING IMPEDANCE SPECTROSCOPY METHOD
Selçuk DEMİREZEN
- 17:30 – 17:45** THE ALL-SOLID-STATE ELECTROCHROMIC DEVICE WITH A CONFIGURATION OF GLASS/ITO/WO₃/ZrO₂/NiO/ITO
Gamze ATAĞ
- 17:45 – 18:00** INVESTIGATING THE STRUCTURAL, ELECTRONICAL, ELASTIC, THERMODYNAMICAL, DYNAMICAL AND OPTICAL PROPERTIES OF Al_xGa_{1-x}N ALLOYS
Ali GÜLTEKİN
- 18:00 – 18:15** THE STUDY ON TiO₂ BASED MEMRISTOR STRUCTURES WITH DIFFERENT AMOUNTS OF O₂ DEPOSITED BY SPUTTERING TECHNIQUE
Halil İbrahim EFKERE

- 18:15 – 18:30** EFFECT OF TRAINING ON THE TEMPERATURE MEMORY PROPERTIES OF TiV AEROSPACE MATERIALS
Semra ERGEN
- 18:30 – 18:45** Ti-BASED SHAPE MEMORY ALLOYS AND PHASE PROPERTIES FOR HIGH TEMPERATURE APPLICATIONS
Semra ERGEN

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 14
CONDENSED MATTER PHYSICS - 1

- 15:30 – 16:30** **CHAIR: Bülent KUTLU**
- 15:30 – 15:45** STRUCTURAL DETERMINATION AND PHYSICAL PROPERTIES OF CuB₂: A FIRST PRINCIPLES STUDY
Engin DELİGÖZ
- 15:45 – 16:00** THE MECHANICAL AND DYNAMICAL PROPERTIES OF TARUB COMPOUND
Engin DELİGÖZ
- 16:00 – 16:15** STRUCTURAL, ELECTRONIC, OPTICAL, ELASTICAL AND PHOTON SHIELDING PROPERTIES OF RBGECL₃
Emel KİLİT DOĞAN
- 16:15 – 16:30** OPTICAL PROPERTIES OF AgXs₂ (X=B, Al, Ga, In)
Sadık BAĞCI
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:45** **CHAIR: Barış KINACI**
- 16:45 – 17:00** LATTICE DYNAMIC PROPERTIES OF Ag₂ZnSNS₄
Sadık BAĞCI
- 17:00 – 17:15** MEP, NBO AND HYDROGEN BOND ANALYSIS OF THE C₁₆H₁₂CIN₃O₈ COMPOUND
Çiğdem YÜKSEKTEPE ATAOL
- 17:15 – 17:30** SPECTROSCOPIC ANALYSIS AND INVESTIGATION OF DNA INTERACTIONS OF THE C₁₆H₁₂CIN₃O₈ COMPOUND WITH THE DFT METHOD
Çiğdem YÜKSEKTEPE ATAOL
- 17:30 – 17:45** THE STRUCTURAL AND ELECTRONIC PROPERTIES OF CDS UNDER HIGH HYDROSTATIC PRESSURE VIA PARRINELLO-RAHMAN METHOD
Cihan KÜRKÇÜ
- 17:45 – 18:00** MICROSTRUCTURAL ANALYSIS OF THERMAL EFFECT PHASE TRANSFORMATIONS IN Fe - %15.14Mn - %5.1Mo - %2.183Si ALLOY
Osman ARMAĞAN
- 18:00 – 18:15** CRYSTALLOGRAPHIC INVESTIGATIONS OF THERMAL EFFECT PHASE TRANSFORMATIONS IN Fe - %18.45Mn - %4.694Mo - %1.995Si ALLOY
Osman ARMAĞAN
- 18:15 – 18:30** ELECTRONIC AND OPTIC PROPERTIES OF Sb AND Nb DOPED KTAO₃ COMPOUNDS
İsmail YÜCEL
- 18:30 – 18:45** INVESTIGATION OF STRUCTURAL AND MECHANICAL PROPERTIES OF ZRX CU100-X ALLOYS PRODUCED BY ARC MELTING
Hakan YAYKAŞLI

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 15
CONDENSED MATTER PHYSICS - 2

15:30 – 16:30 CHAIR: Fethi SOYALP

15:30 – 15:45 EFFECTIVE G-FACTOR OF ELECTRONS IN DILUTED MAGNETIC SEMICONDUCTORS QUANTUM RING WITH RASHBA SPIN-ORBITAL INTERACTION
Arif BABANLI

15:45 – 16:00 SPECIFIC HEAT OF ELECTRONS IN DILUTED MAGNETIC SEMICONDUCTOR QUANTUM RING
Arif BABANLI

16:00 – 16:15 THERMAL EXPANSION AND LATTICE MISMATCH STRAIN EFFECTS ON CORE BANDGAP AND DIAMETER OF CDSE/ZNS HETEROSTRUCTURE CORE/SHELL QUANTUM DOTS
Hilmi ÜNLÜ

16:15 – 16:30 TIGHT BINDING MODELLING OF BINARY/TERNARY AND TERNARY/BINARY HETEROSTRUCTURE CORE/SHELL QUANTUM DOTS
Hilmi ÜNLÜ

16:30 – 16:45 COFFEE BREAK

16:45 – 18:30 CHAIR: Ruhi KAPLAN

16:45 – 17:00 ELECTRO-OPTIC PROPERTIES OF II-VI GROUP CDS MATERIALS IN A PLASMA SYSTEM
Hilal KURT

17:00 – 17:15 OPTOELECTRONIC FEATURES OF ZNSE DETECTOR IN A DOUBLE DISCHARGE GAP
Hilal KURT

17:15 – 17:30 AB-INITIO INVESTIGATION OF THE STRUCTURAL, ELASTIC, ELECTRONIC, PHONON AND THERMODYNAMIC PROPERTIES OF LICDAS
Fethi SOYALP

17:30 – 17:45 STRUCTURAL PHASE TRANSITION OF CADMIUM SULFIDE UNDER HIGH PRESSURE VIA THE CONJUGATE GRADIENT METHOD
Çağatay YAMÇIÇIER

17:45 – 18:00 STRUCTURAL AND ELECTRONIC PROPERTIES OF ZIRCONIUM OXIDE UNDER PRESSURE
Çağatay YAMÇIÇIER

18:00 – 18:15 DYNAMIC PROPERTIES OF THE INTERMETALLIC COMPOUNDS PD₂TiX (X=Al AND In): DFT-BASED FIRST PRINCIPLE STUDY
Ülkü BAYHAN

18:15 – 18:30 FIRST- PRINCIPLES CALCULATIONS ON THE MECHANICAL PROPERTIES OF LnScO₃ (Ln=Sm, Nd, Tb, Eu, Pr) COMPOUNDS
Fehime Hayal GEÇİT

8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 16
CONDENSED MATTER PHYSICS - 3

- 15:30 – 16:30** **CHAIR: Sevket Erol OKAN**
- 15:30 – 15:45** A STUDY ON Mg-DOPED ZnO NANOSTRUCTURED THIN FILMS: STRUCTURAL, OPTICAL AND AN APPLICATION OF Al/MI-DOPED ZnO/P-Si HETEROJUNCTION DIODE
İbrahim Halil MUTLU
- 15:45 – 16:00** INFLUENCE OF THICKNESS AND ANNEALING ON THE PROPERTIES OF ZINC-OXIDE THIN FILMS DEPOSITED BY THERMAL EVAPORATION
Gökhan UTLU
- 16:00 – 16:15** GREEN SYNTHESIS OF COPPER/SILVER BIMETALLIC NANOPARTICLES USING POMEGRANATE LEAF EXTRACT
Bülent ULUĞ
- 16:15 – 16:30** SYNTHESIS AND CHARACTERIZATION OF Zn₂SnO₄ NANOPARTICLES
Sabit HOROZ
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Ülkü BAYHAN**
- 16:45 – 17:00** CHARACTERIZATION OF MgO:Cd THIN FILMS GROWN BY SILAR METHOD
Harun GÜNEY
- 17:00 – 17:15** THE EFFECT OF MG DOPING ON SnO₂ THIN FILMS GROWN BY SPRAY PYROLYSIS TECHNIQUE
Harun GÜNEY
- 17:15 – 17:30** INFLUENCE OF TRANSPARENT CONDUCTING THIN FILM ON ELECTRICAL PROPERTIES OF AzO/P-Si JUNCTION
Tuba ÇAKICI
- 17:30 – 17:45** OPTICAL, STRUCTURAL AND ELECTRICAL PROPERTIES OF ZnO/P-Si JUNCTION
Tuba ÇAKICI
- 17:45 – 18:00** SYNTHESIS OF Co₃O₄-V₂O₅ THIN FILMS AND ITS USE IN SUPERCAPACITOR APPLICATION
Süleyman KERLİ
- 18:00 – 18:15** THE ELECTRICAL CHARACTERIZATION OF PENTACENE THIN FILM TRANSISTOR WITH POLYMER GATE INSULATORS
Şerif RÜZGAR
- 18:15 – 18:30** STRUCTURAL AND OPTICAL PROPERTIES OF BORON-DOPED ZnO THIN FILMS SYNTHESIS BY SPRAY PYROLYSIS METHOD
Yaşar Özkan YEŞİLBAĞ

9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 14
CONDENSED MATTER PHYSICS - 1

- 15:30 – 16:30** **CHAIR: Sadık BAĞCI**
- 15:30 – 15:45** THE REVISED ISING MODEL HAMILTONIAN FOR THE CLEAN Si(001) SURFACE:
CELLULAR AUTOMATON CALCULATIONS
Bülent KUTLU
- 15:45 – 16:00** THE EFFECT OF THE FOUR-DIMER AND THE VERTICAL NEXT-NEAREST
NEIGHBOR INTERACTIONS ON THE Si(001) SURFACE PHASE TRANSITION:
CELLULAR AUTOMATON CALCULATIONS
Hacer ÇELEBİ
- 16:00 – 16:15** INTERSUBBAND POPULATION DYNAMICS IN SEMICONDUCTOR QUANTUM
WELLS WITH BROKEN INVERSION SYMMETRY
İbrahim KARABULUT
- 16:15 – 16:30** QUANTUM PHASES OF SPIN-ORBIT-COUPLED QUANTUM GASES
Elife Öznur KARABULUT
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Yasemin ÖZTEKİN ÇİFTÇİ**
- 16:45 – 17:00** THEORETICAL STUDY OF I...N HALOGEN BONDING INTERACTION IN THE
CRYSTAL OF P-IODOBENZONITRILE
Sibel DEMİR KANMAZALP
- 17:00 – 17:15** NBO, HOMO-LUMO AND MEP ANALYSIS BY DFT METHOD OF (E)-2-(1-(3-METHYL-
3-PHENYLCYCLOBUTYL)-2-(4-PHENYLPYPERAZİN-1-YL)ETHYLIDENE)
HYDRAZINECARBOTHIOAMIDE COMPOUND
Sibel DEMİR KANMAZALP
- 17:15 – 17:30** FIRST PRINCIPLES STUDY OF ELECTRONIC STRUCTURE, MAGNETIC,
THERMODYNAMIC AND MECHANICAL PROPERTIES OF TRANSITION METAL
OXIDES PBM1/2NB1/2O3 (M = Fe, Co AND Ni)
Gökhan SÜRÜCÜ
- 17:30 – 17:45** ESTIMATION OF THERMODYNAMICAL PROPERTIES OF Mo-BASED TERNARY
ALLOYS
Hüseyin ARSLAN
- 17:45 – 18:00** PLASMA INSTABILITIES IN AN IR IMAGE CONVERTER SYSTEM
Fuat KARİP
- 18:00 – 18:15** AN AB-INITIO STUDY OF SUPERCONDUCTIVITY IN THE NONCENTROSYMMETRIC
SrPtGe₃ AND CaPtSi₃ MATERIALS
Hüseyin Yasin UZUNOK
- 18:15 – 18:30** ELECTRONIC STRUCTURES OF ZIGZAG SINGLE-WALLED CARBON NANOTUBES
IN DIFFERENT LENGTHS
Necati VARDAR

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 15
CONDENSED MATTER PHYSICS - 2**

- 15:30 – 16:30** **CHAIR: Bengü KAPLAN**
- 15:30 – 15:45** PRODUCTION AND PHASE IDENTIFICATIONS OF Al-Ni-Si ALLOYS BY ARC MELTING
Musa GÖĞEBAKAN
- 15:45 – 16:00** STRUCTURAL PROPERTIES OF $Al_{85}Ni_{12.5}Si_{2.5}$ AND $Al_{85}Ni_{2.5}Si_{12.5}$ ALLOYS
Musa GÖĞEBAKAN
- 16:00 – 16:15** CHARACTERIZATION OF ROOM TEMPERATURE PHOTOLUMINESCENCE OF PHOSPHORUS DOPED HYDROGENATED AMORPHOUS SILICON CARBIDE THIN FILMS
Kıvanç SEL
- 16:15 – 16:30** THE EFFECTS OF PHOSPHORUS ON THE ELECTRICAL PROPERTIES AND CONDUCTION MECHANISMS OF HYDROGENATED AMORPHOUS SILICON CARBIDE THIN FILMS
Kıvanç SEL
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:30** **CHAIR: Abdullah AYDIN**
- 16:45 – 17:00** ENHANCING OF BLUE SHIFT AT SHG SIGNAL FROM B-DOPED GASE BY CE DOPING
Mustafa YÜKSEK
- 17:00 – 17:15** AGGERATE OF ACTIVE NANOPARTICLES ON A BUBBLE SURFACE
Gürsoy Bozkurt AKGÜÇ
- 17:15 – 17:30** NONLINEAR THERMOELECTRICITY IN TWO INTERACTING NANOWIRE
Gürsoy Bozkurt AKGÜÇ
- 17:30 – 17:45** EXAFS STUDY OF $LiGa_{1-x}BXO_2$ CATHODE MATERIALS
Osman Murat ÖZKENDİR
- 17:45 – 18:00** EFFECTS OF STABILIZATION TIME DURING WELL-BARRIER TRANSITIONS OF InGaN/GaN MULTI QUANTUM WELLS
Aliye Alev KIZILBULUT
- 18:00 – 18:15** COMPARATIVE STUDY OF p-GaN LAYERS GROWN ON C-PLANE Al_2O_3 SUBSTRATES: THE ROLE OF Cp_2Mg FLOW EFFECTS
Aliye Alev KIZILBULUT
- 18:15 – 18:30** ANGLE DEPENDENT LANDAU LEVELS AND MAGNETOTRANSPORT IN CORRUGATED PHOSPHORENE
Aybey MOĞULKOÇ

9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 16
CONDENSED MATTER PHYSICS - 3

- 15:30 – 16:30** CHAIR: Musa GÖĞEBAKAN
- 15:30 – 15:45** QUANTUM THEORY OF SPIN WAVE GAP IN ULTRATHIN MAGNETIC FILMS
Bengü KAPLAN
- 15:45 – 16:00** EFFECTS OF THE APPLIED MAGNETIC FIELD AND ANISOTROPY ON THE SPIN WAVE GAP IN ULTRATHIN MAGNETIC FILMS AT ZERO TEMPERATURE
Bengü KAPLAN
- 16:00 – 16:15** CHARACTERIZATION OF TCO/P CONTACT RESISTANCE IN A-Si:H P-I-N SOLAR CELLS UNDER ILLUMINATION
Ruhi KAPLAN
- 16:15 – 16:30** TEMPERATURE AND SPECTRAL DEPENDENT ANALYSIS OF PHOTOCURRENT IN A-Si:H SINGLE JUNCTION P-I-N SOLAR CELLS
Ruhi KAPLAN
- 16:30 – 16:45** COFFEE BREAK
- 16:45 – 19:00** CHAIR: İbrahim KARABULUT
- 16:45 – 17:00** ELECTRONIC AND MECHANICAL PROPERTIES OF HALF HEUSLER SEMICONDUCTOR LiScSn VIA FIRST-PRINCIPLES CALCULATIONS
Yesim MOGULKOC
- 17:00 – 17:15** ELECTRONIC AND OPTICAL PROPERTIES OF SINGLE-LAYER STRAINED SNC
Yesim MOGULKOC
- 17:15 – 17:30** INFLUENCE OF GLYCEROL AS AN ADDITIVE ON THE PBS NANOSTRUCTURES PREPARED BY CHEMICAL BATH DEPOSITION METHOD
Ersin YÜCEL
- 17:30 – 17:45** THE VARIATION OF THE FEATURES OF SnO₂ AND SnO₂:F THIN FILMS AS A FUNCTION OF V DOPANT
Güven TURGUT
- 17:45 – 18:00** PB-CONTRIBUTION INFLUENCE ON PROPERTIES OF SPIN COATED ZnO THIN FILMS
Güven TURGUT
- 18:00 – 18:15** DIRECT LEVEL CAPACITANCE PROFILING (DLCP) TECHNIQUE ON THIN FILM SOLAR CELLS
Şadan ÖZDEN
- 18:15 – 18:30** PHYSICAL PROPERTIES OF SOL-GEL PROCESSED Cu₂ZnSnS₄ THIN FILM ABSORBER: INFLUENCE OF ANNEALING TEMPERATURE
Ahmet TUMBUL
- 18:30 – 18:45** GROWTH AND CHARACTERIZATION OF INGAN THIN FILMS ON SI(111) SUBSTRATE BY RF MAGNETRON SPUTTERING: N₂ GAS FLOW EFFECT
Erman ERDOĞAN

18:45 – 19:00 OPTICAL AND ELECTRONIC PROPERTIES OF TIN THIN FILMS FOR LOW-E COATINGS
Meltem BABAYIĞIT

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 14
CONDENSED MATTER PHYSICS - 1

- 09:30 – 11:15** **CHAIR: Canan AKSU CANBAY**
- 09:30 – 09:45** MICROSTRUCTURE AND ELECTRICAL PROPERTIES OF ALUMINUM-BASED MULTICOMPONENT ALLOY
Yusuf KAYGISIZ
- 09:45 – 10:00** MICROSTRUCTURES AND VICKERS HARDNESS OF Al–Cu–Mn EUTECTIC ALLOY
Yusuf KAYGISIZ
- 10:00 – 10:15** EFFECT OF GROWTH RATE ON MICROSTRUCTURAL, MECHANICAL AND ELECTRICAL PROPERTIES IN Al–Cu EUTECTIC ALLOY
Sevda ENGİN
- 10:15 – 10:30** EFFECTS OF IRON CONTENT ON MICROSTRUCTURAL PROPERTIES OF Al–Si–XFe ALLOYS
Sevda ENGİN
- 10:30 – 10:45** STRUCTURAL, ELECTRONIC AND SHIELDING PROPERTIES OF THE TERNARY SRXMG1-XO ALLOYS
Sinem ERDEN GULEBAGLAN
- 10:45 – 11:00** STRUCTURAL CHARACTERIZATION OF Cu-Zr ALLOYS
Celal KURŞUN
- 11:00 – 11:15** MG65NI20Y15-XAGX (X=1, 2, 3) ALLOYS PREPARED VIA ARC MELTING
Celal KURŞUN
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: Harun GÜNEY**
- 11:30 – 11:45** DIELECTRIC MEASUREMENT OF N-(P-N-BUTOXYBENZYLIDENE)-P-N-BUTYLANILINEIN THE FREQUENCY RANGE 100 HZ TO 1 MHZ
Pınar ÖZDEN
- 11:45 – 12:00** INVESTIGATION OF BIODEGRADABLE TERNARY MAGNESIUM ALLOYS
Selma ÖZARSLAN
- 12:00 – 12:15** GRAPHENE-BASED ELECTROCHEMICAL BIOSENSORS FOR DETECTION OF AMINO ACIDS
Bahadır SALMANKURT
- 12:15 – 12:30** THE INFLUENCES OF CARRIER GAS FLOW ON CRYSTAL QUALITY OF GAN
İlkay DEMİR
- 12:30 – 12:45** THERMOLUMINESCENCE STUDIES OF Ga₄S₃Se SINGLE CRYSTALS
Serdar DELİCE
- 12:45 – 13:00** ORIGIN OF THE OPTICAL ABSORPTION OF TIGaSe₂ LAYERED SEMICONDUCTOR IN THE VISIBLE RANGE
Asuman CENGİZ

- 13:00 – 14:00** **BREAK**
- 14:00 – 15:00** **CHAIR: Cihan KÜRKÇÜ**
- 14:00 – 14:15** STUDY OF PHASE STATES IN COMPLEX LYOTROPIC SYSTEM OF BICOMPONENT AMPHIPHILES
Yasemin ALTINAY
- 14:15 – 14:30** HYDROGEN STORAGE PROPERTIES OF BORON-DOPED CA-DECORATED DCV GRAPHENE STRUCTURES
Esra EROĞLU
- 14:30 – 14:45** INVESTIGATION OF CARRIER TRANSPORT MECHANISMS IN THE CUZNSE₂-BASED HETEROSTRUCTURE GROWN BY SPUTTERING TECHNIQUE
Makbule TERLEMEZOĞLU
- 14:45 – 15:00** POLARIZABILITY PECULIARITIES IN THERMOTROPIC NEMATIC LIQUID CRYSTALS WITH OXYCYANOBIPHENYL MOLECULAR FRAGMENT
Atilla Eren MAMUK
- 15:00 – 15:15** **COFFEE BREAK**
- 15:15 – 16:15** **CHAIR: Saffettin YILDIRIM**
- 15:15 – 15:30** SOME MECHANICAL CHARACTERISTICS OF FE - 50% Mn ALLOYED BY THE "WIEN2K" PROGRAM
Gencer SARIOĞLU
- 15:30 – 15:45** HIGH-VOLTAGE LOW LEAKAGE CURRENT AlGa_N/Ga_N HEMTS WITH MULTI-LAYER BUFFER AND ALGAN BACK-BARRIER STRUCTURE
Gökhan ATMACA
- 15:45 – 16:00** THE GENERALIZED MORSE WAVELET TO DETERMINE THE REFRACTIVE INDEX AND THE EXTINCTION COEFFICIENT OF A ABSORBING FILM FROM REFLECTANCE SPECTRUM: A SIMULATION STUDY
Erhan TİRYAKİ
- 16:00 – 16:15** A SIMULATION STUDY TO DETERMINE THE BIREFRINGENCE DISPERSION OF A LIQUID CRYSTAL FROM REFLECTANCE SPECTRUM BY USING THE PAUL WAVELET
Erhan TİRYAKİ

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 15
CONDENSED MATTER PHYSICS - 2

- 09:30 – 11:15** **CHAIR: Murat ÇALIŞKAN**
- 09:30 – 09:45** CORROSION RESISTANCE OF COBALT-BASED COMPOSITE FILMS DEPOSITED ON STEEL
Salih DURDU
- 09:45 – 10:00** OPTICAL ABSORPTION STUDIES OF INTERNAL TRANSITION OF Fe In InP:Fe BY FOURIER TRANSFORM SPECTROSCOPY
Enver TARHAN
- 10:00 – 10:15** THE INVESTIGATION OF ELECTRICAL AND MECHANICAL PROPERTIES OF GRAPHENE/GRAPHENE OXIDE HYBRID STRUCTURES
Saffettin YILDIRIM
- 10:15 – 10:30** INFLUENCE OF HOLE FRACTION ON ELONGATIONAL VISCOSITY OF POLYMER MELTS
Fatma DİNÇ
- 10:30 – 10:45** CRYSTAL STRUCTURE PROPERTIES OF PR SUBSTITUTED SMBO₃ COMPOUNDS
Hakan GÜNDOĞMUŞ
- 10:45 – 11:00** SYNTHESIS AND CHARACTERIZATION OF GD-DOPED BISMUTH BASED SUPERCONDUCTING MATERIALS
Hasan AĞIL
- 11:00 – 11:15** THE ROLE OF (MOO₃/WO₃) CO-DOPING ON BISMUTH BASED SUPERCONDUCTING MATERIALS
Aslı Asiye AĞIL
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: Mehmet YILMAZ**
- 11:30 – 11:45** CATALYTIC ACTIVITY OF LOW-INDEX Au(111), Au(100) AND Au(110); HIGH-INDEX Au(210) SURFACES FOR SODIUM BOROHYDRIDE HYDROLYSIS REACTION
Ali Emre GENÇ
- 11:45 – 12:00** FUNCTIONALIZATION OF SILICON SURFACE BY THIADIAZOLE MOLECULE
Çağıl KADEROĞLU
- 12:00 – 12:15** THE PRESSURE EFFECT ON PHYSICAL PROPERTIES OF CuTIS₂
İrem ÖNER ALP
- 12:15 – 12:30** TEMPERATURE DEPENDENCE OF MECHANICAL PROPERTIES OF ANTI-PARALLEL BETA-SHEETS WITH BOMBYX-MORI SILK NANO STRUCTURES ALONG CHAIN DIRECTION
Ünsal AKDERE
- 12:30 – 12:45** THE TEST OF A NEW CRITICAL EXPONENT Q BY USING ISING MODEL ON THE CREUTZ CELLULAR AUTOMATON

Didem GÖKBEL

12:45 – 13:00 HEATING AND COOLING PROCESSES OF BIMETALLIC NANOPARTICLES: A MOLECULAR DYNAMICS STUDY
Ünal DÖMEKELİ

13:00 – 14:00 **BREAK**

14:00 – 14:45 **CHAIR: Merih SERİN**

14:00 – 14:15 AN APPROACH TO INVESTIGATE RELATION BETWEEN MAGNETIC DOMAINS AND APPLIED MAGNETIC FIELDS: EVALUATION MECHANISM OF THE BRANCHING DOMAINS
Taylan GUNES

14:15 – 14:30 TUNABLE ZnO DEEP-UV LIGHT EMITTERS WITH PRESSURE VARIABLE
Derya ÜNAL

14:30 – 14:45 ENSEMBLE MONTE CARLO ANALYSIS OF ELECTRON TRANSPORT IN SILICENE
Meryem Derya ÖZDEMİR

10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 16
CONDENSED MATTER PHYSICS - 3

- 09:30 – 11:15** **CHAIR: Ziya MERDAN**
- 09:30 – 09:45** EFFECTS OF PARTICLE SHAPE AND SIZE ON LIGHT SCATTERING OF VO₂ NANOPARTICLES
Mustafa COŞKUN
- 09:45 – 10:00** MAGNETOCALORIC EFFECT STUDY ON (La_{0.9}Gd_{0.1})_{0.85}Ag_{0.15}MnO₃ MANGANITE COMPOUND
Ali Osman AYAŞ
- 10:00 – 10:15** COMPARISON OF PROPERTIES OF DOUBLY DOPED TIN OXIDE THIN FILMS DEPENDENT ON SUBSTRATE TEMPERATURE AND SOLUTION CONCENTRATION
Ahmet BATTAL
- 10:15 – 10:30** EFFECT OF HOT PRESSING ON THE PYRENE ADDED BULK MGB₂ SUPERCONDUCTORS
Özge ERDEM
- 10:30 – 10:45** VERIFICATION OF THE MANY BODY POTENTIALS FOR BULK METALLIC GLASSES BY MOLECULAR DYNAMICS SIMULATIONS
Murat ÇELTEK
- 10:45 – 11:00** DOPED AND UN-DOPED METAL OXIDE NANO-POWDERS AS A SOURCE OF INCANDESCENT LAMP-LIKE EMISSION
Gökhan BİLİR
- 11:00 – 11:15** DFT+U INVESTIGATION OF Mn- AND Co-DOPED ZnO NANOWIRES
Veysel ÇELİK
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 13:00** **CHAIR: Ahmet BATTAL**
- 11:30 – 11:45** SHORT RANGE ORDER IN Zr-Cu-Fe BULK METALLIC ALLOY BY COMMON NEIGHBOR ANALYSIS
Sedat ŞENGÜL
- 11:45 – 12:00** EFFECT OF CU DOPING ON MECHANICAL PERFORMANCE AND CHARACTERISTICS OF Bi-2212 INORGANIC MATERIALS AND MECHANICAL MODELING OF NEW MATRICES
Bahadır AKKURT
- 12:00 – 12:15** INFLUENCE OF Cu IMPURITIES ON STRUCTURAL AND SUPERCONDUCTING CHARACTERISTICS OF Bi-2212 CRYSTAL SYSTEM AND FORMATION OF EFFECTIVE NUCLEATION CENTERS IN Bi-2212 CRYSTAL SYSTEM WITH HIGHLY DISPERSED Cu INCLUSIONS
Bahadır AKKURT
- 12:15 – 12:30** ATOMIC AND ELECTRONIC STRUCTURE OF FEW-LAYER GRAPHENE GROWN ON SiC/Si(001) WAFERS
Olga MOLODTSOVA

- 12:30 – 12:45** A SIMPLE METHOD FOR THE POLYMER WALL FORMATION IN BLUE PHASE LIQUID CRYSTAL/POLYMER MIXTURES
Nejmettin AVCİ
- 12:45 – 13:00** SYNTHESIS OF N-ZnO AND P-CuO SEMICONDUCTOR MATERIALS BY A FACILE CO-ELECTROPLATING-ANNEALING ROUTE AND THEIR PN HETEROJUNCTIONS
Sunay TÜRKDOĞAN
- 13:00 – 14:00** **BREAK**
- 14:00 – 15:00** **CHAIR: Arif BABANLI**
- 14:00 – 14:15** THE STUDIES ON EPITAXIAL GROWTH OF DILUTE NITRIDE III-V SEMICONDUCTORS BY MBE TECHNIQUE
Tunç SERTEL
- 14:15 – 14:30** MOTIONAL DISPLACEMENTS IN PROTEINS: DYNAMICAL HETEROGENEITY
Derya VURAL
- 14:30 – 14:45** THE CURRENT-VOLTAGE AND CAPACITANCE-VOLTAGE CHARACTERISTICS OF Gd/P-Si SCHOTTKY DIODES
Durmuş Ali ALDEMİR
- 14:45 – 15:00** THERMODYNAMIC PROPERTIES OF ONE DIMENSIONAL SPIN-1/2 ANTIFERROMAGNETIC QUANTUM BINARY SYSTEM
Ulvi KANBUR
- 15:00 – 15:15** **COFFEE BREAK**
- 15:15 – 16:15** **CHAIR: Güven TURGUT**
- 15:15 – 15:30** PRODUCTION OF SILICON NANOWIRE HAVING DIFFERENT SIZE BY USING METAL ASSISTED CHEMICAL ETCHING METHOD
Ecem BOZDOĞAN
- 15:30 – 15:45** THE EFFECTS OF GAMMA IRRADIATION ON ELECTRICAL CHARACTERISTICS OF Zn/ZnO/N-Si/Au-Sb STRUCTURE
Maryam ABDOLAHPOUR SALARI
- 15:45 – 16:00** PECULIARITIES OF SEMICONDUCTOR-PLASMA STRUCTURE WITH LARGE DIAMETER SEMICONDUCTOR CATHODE
Evrin TANRIVERDİ
- 16:00 – 16:15** THE STRUCTURAL, OPTICAL AND ELECTRICAL CHARACTERISTICS OF V₂O₅ FILMS CHANGE WITH THE SUBSTRATE TEMPERATURE
Erol KÖSE

HALL – 17-18
HIGH ENERGY AND PLASMA PHYSICS

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 17
HIGH ENERGY AND PLASMA PHYSICS-1**

- 15:30 – 16:30** **CHAIR: Sehban KARTAL**
- 15:30 – 15:45** CURRENT STATUS OF TURKISH ACCELERATOR AND RADIATION LABORATORY
IN ANKARA: THE TARLA FACILITY
Ömer YAVAŞ
- 15:45 – 16:00** THE STUDIES FOR ESTABLISHING REQUIRED INFRASTRUCTURES AT TAEA
PROTON ACCELERATOR FACILITY R&D IRRADIATION VAULT
Alper Nazmi YÜKSEL
- 16:00 – 16:15** STATUS OF CUORE EXPERIMENT AND FUTURE PERSPECTIVES
Carminc ELVEZIO PAGLIARONE
- 16:15 – 16:30** AMS EXPERIMENT FROM SUPERSTATISTICS POINT OF VIEW
Gülistan Çiğdem YALÇIN
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 18:00** **CHAIR: Salim ÇERÇİ**
- 16:45 – 17:00** UNDERLINE EVENT AND BACKGROUND STUDIES IN PP COLLISIONS AT 100 TEV
AT FCC
Sehban KARTAL
- 17:00 – 17:15** EMITTANCE EVALUATION IN BOOSTER RINGS DURING RAMPING AND AN
IMPLEMENTATION OF THIS EVALUATION FOR FCC E+E- PRE-BOOSTER RING
Abbas Kenan ÇİFTÇİ
- 17:15 – 17:30** SPIN 1/2 EXCITED QUARK RESONANCE PRODUCTION AT THE FCC IN DIJET FINAL
STATE
Mehmet ŞAHİN
- 17:30 – 17:45** PROBING FCNC COUPLINGS OF TOP-HIGGS AT LHEC AND FCC-EH
Burak HACIŞAHİNOĞLU
- 17:45 – 18:00** SEARCH FOR THE CHIRIAL FOURTH FAMILY UP TYPE QUARKS AT THE LHC AND
FCC
Ali Can CANBAY

**7 SEPTEMBER 2017, THURSDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 18
HIGH ENERGY AND PLASMA PHYSICS-2**

15:30 – 16:30 CHAIR: Deniz SUNAR ÇERÇİ

**15:30 – 15:45 FULLY TRANSPARENT RECHARGEABLE BATTERY PRODUCTION
Suat PAT**

**15:45 – 16:00 THEORETICAL STUDY OF $D^*S_0(2317)^+$ RESONANCES
Melahat BAYAR**

**16:00 – 16:15 EXOTIC NATURE OF THE PC(4450) AND PC(4380)
Melahat BAYAR**

**16:15 – 16:30 CHARGED HIGGS-PAIR PRODUCTION ASSOCIATED WITH Z_0 BOSON IN 2HDM
Nasuf SÖNMEZ**

16:30 – 16:45 COFFEE BREAK

16:45 – 17:30 CHAIR: Serdar KARADENİZ

**16:45 – 17:00 INTERACTION OF 2-((2-METHOXYPHENYL)DIAZENYL)BENZENE-1,3,5-TRIOL
MOLECULE AND ATMOSPHERIC PRESSURE ARGON PLASMA JET
Murat TANIŞLI**

**17:00 – 17:15 AN INVESTIGATION FOR EFFECTS OF NEON AND ARGON PLASMA JETS ON
COUMARIN MOLECULE AT ATMOSPHERIC PRESSURE
Murat TANIŞLI**

**17:15 – 17:30 PARAMETER SPACE FOR A LIGHT HIGGS BOSON SEARCH IN THE TWO HIGGS
DOUBLET MODEL
Ferhat ÖZTÜRK**

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 17
HIGH ENERGY AND PLASMA PHYSICS-1**

- 15:30 – 16:30** **CHAIR: Metin KANTAR**
- 15:30 – 15:45** GENERAL STRUCTURE OF DEMOCRATIC MASS MATRIX OF LEPTON SECTOR IN E6
MODEL
Abbas Kenan ÇİFTÇİ
- 15:45 – 16:00** E6 PREDICTED ISOSINGLET QUARKONIUM FORMATION
Çağla ÇAĞLAR
- 16:00 – 16:15** PROBING THE DIPOLE MOMENTS OF THE TOP QUARK AT HIGH ENERGY PHOTON-
PHOTON COLLISIONS AT THE CLIC
Ahmet Alper BİLLUR
- 16:15 – 16:30** MISALIGNMENT EFFECTS TO THE BEAM POLARIZATION IN THE CLIC BEAM
DELIVERY SYSTEM
Ayşegül UŞUN SİMİTÇİOĞLU
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:45** **CHAIR: İlkay TÜRK ÇAKIR**
- 16:45 – 17:00** TRACKING SIMULATION AND OPTIMIZATION OF THE CLIC INJECTOR LINAC
Cafer BAYAR
- 17:00 – 17:15** SUPERCONDUCTING AND NORMALCONDUCTING CAVITY AND FIELD PROBLEMS
AT ACCELERATORS
Dilaver PORSUK
- 17:15 – 17:30** DESIGN SIMULATIONS OF BEAMLINE AT ACCELERATORS
Dilaver PORSUK
- 17:30 – 17:45** PI SURFACE RESISTIVITY AND EFFECTS ON THE GEM DETECTOR GAIN
Yalçın KALKAN

**8 SEPTEMBER 2017, FRIDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 18
HIGH ENERGY AND PLASMA PHYSICS-2**

15:30 – 16:30 CHAIR: Kadri ÖZDEMİR

15:30 – 15:45 EXCITED QUARK PRODUCTION IN Γ +JET FINAL STATE IN PROTON-PROTON COLLISIONS AT $\sqrt{s}=100$ TEV
Yusuf Oğuzhan GÜNAYDIN

15:45 – 16:00 SINGLE PRODUCTION OF THE EXCITED MUONS AT THE SPPC-BASED MUON-PROTON COLLIDERS
Abdullatif ÇALIŞKAN

16:00 – 16:15 EXCITED ELECTRON SEARCHES AT THE SPPC-BASED ELECTRON-PROTON COLLIDERS
Abdullatif ÇALIŞKAN

16:15 – 16:30 PRODUCTION OF CHARGED HIGGS BOSON AT HIGH ENERGY HADRON COLLIDERS
Alev Ezgi DEMİRCİ

16:30 – 16:45 COFFEE BREAK

16:45 – 17:45 CHAIR: Erkan ÖZCAN

16:45 – 17:00 KAHVE LABORATORY RF CIRCULATOR AND TRANSMISSION LINE PROJECT
Hakan ÇETİNKAYA

17:00 – 17:15 DESIGN, SIMULATION AND CONSTRUCTION OF THE DELAY WIRE CHAMBER
Ezgi ERGENLİK

17:15 – 17:30 PREDICTING EFFECTS OF MANUFACTURING ERRORS ON PARTICLE BEAM IN AN RFQ WITH DEMİRCİ SOFTWARE
Emre ÇELEBİ

17:30 – 17:45 COLOR OCTET ELECTRON SEARCH POTENTIAL AT THE LHC AND FUTURE MULTI TEV SCALE COLLIDERS
Ümit KAYA

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 17
HIGH ENERGY AND PLASMA PHYSICS-1**

- 15:30 – 16:30** **CHAIR: Suat PAT**
- 15:30 – 15:45** MONTE CARLO MODEL TUNING STUDIES WITH CMS DATA
Deniz SUNAR ÇERÇİ
- 15:45 – 16:00** NEW CONSTRAINTS ON PARTON DISTRIBUTION FUNCTIONS FROM THE CMS MEASUREMENTS
Salim ÇERÇİ
- 16:00 – 16:15** QCD JETS IN CMS
Kadri ÖZDEMİR
- 16:15 – 16:30** PROBING THE ANOMALOUS ELECTROMAGNETIC MOMENTS OF THE TAU LEPTON IN TP COLLISIONS AT THE LHC
Murat KÖKSAL
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:45** **CHAIR: Gülistan Çiğdem YALÇIN**
- 16:45 – 17:00** THE POSSIBLE EFFECT ON THE NEUTRAL MOLECULE(O₂) DENSITY OF IMF-Bz AND F10.7 SOLAR FLUX
Serhat KORLAELÇİ
- 17:00 – 17:15** THE EFFECT OF IMF-BZ AND F10.7 SOLAR FLUX ON N₂ DENSITY OF IONOSPHERIC E-REGION
Serhat KORLAELÇİ
- 17:15 – 17:30** SURFACE INTERACTION EFFECTS TO A KLEIN-GORDON PARTICLE EMBEDDED IN A WOODS-SAXON POTENTIAL WELL IN TERMS OF THERMODYNAMIC FUNCTIONS
Bekir Can LÜTFÜOĞLU
- 17:30 – 17:45** THE ELECTRON TEMPERATURE DETERMINATION WITH THE LANGMUIR PROBE AND OPTICAL EMISSION SPECTROSCOPY FOR THE CAPACITIVE COUPLED RADIO FREQUENCY DISCHARGE AT LOW PRESSURE
Neslihan ŞAHİN

**9 SEPTEMBER 2017, SATURDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 18
HIGH ENERGY AND PLASMA PHYSICS-2**

- 15:30 – 16:30** **CHAIR: Abbas Kenan ÇİFTÇİ**
- 15:30 – 15:45** POLARIZED OPEN CHARM PHOTOPRODUCTION AT HIGH ENERGY GAMMA-P
COLLIDERS
Metin KANTAR
- 15:45 – 16:00** RESONANCE PRODUCTION OF EXCITED ELECTRONS AT HIGH ENERGY GAMMA-
E COLLIDERS
Metin KANTAR
- 16:00 – 16:15** PERFORMANCE OF IRI-2016 MODEL PREDICTIONS AT THE MIDDLE LATITUDES
DURING GEOMAGNETIC DISTURBED PERIODS
Erdiñç TİMOÇİN
- 16:15 – 16:30** THE INVESTIGATION OF THE LATITUDINAL VARIATION OF ELECTRON DENSITY
PROFILES IN HIGH LATITUDE IONOSPHERE
Erdiñç TİMOÇİN
- 16:30 – 16:45** **COFFEE BREAK**
- 16:45 – 17:45** **CHAIR: Salih Cem İNAN**
- 16:45 – 17:00** IMPROVEMENT IN MOMENTUM RESOLUTION OF PARENT PARTICLES USING
MASS CONSTRAINT IN THE REST FRAME
Ahmet BİNGÜL
- 17:00 – 17:15** A RANKING METHOD FOR SELECTION OF η MESONS IN HIGH MULTIPLICITY
EVENTS
Uygar ŞAŞMAZ
- 17:15 – 17:30** EXPLANATION OF THE THREE BODY D MESONS
Elif SERTBAKAN
- 17:30 – 17:45** $K \bar{K}S(1300)$ INTERACTION LEADING $K(1300)$
Elif SERTBAKAN

**10 SEPTEMBER 2017, SUNDAY
BODRUM HIGH SCHOOL - KONACIK
HALL – 17
HIGH ENERGY AND PLASMA PHYSICS-1**

- 09:30 – 11:15** **CHAIR: Melahat BAYAR**
- 09:30 – 09:45** NONSTANDARD HIGGS COUPLINGS AT PROTON-PROTON COLLIDER WITH 100 TEV ENERGY
Gülistan AKKAYA SELÇİN
- 09:45 – 10:00** SEARCH FOR HIGH-MASS RESONANCES IN DIJET FINAL STATE IN PP COLISIONS AT 13 TEV
Emine GURPİNAR
- 10:00 – 10:15** SEARCH FOR NEW PHYSICS IN FINAL STATES WITH AN ENERGETIC JET OR A HADRONICALLY DECAYING W OR Z BOSON USING 35.9 FB-1 OF DATA AT 13 TEV
Yalcin GULER
- 10:15 – 10:30** A STUDY ON ANOMALOUS HVV COUPLINGS AT EP COLLIDERS
Murat ALTINLI
- 10:30 – 10:45** INVESTIGATION OF GEOMETRIC AND TOPOLOGICAL PHASE FOR ENTANGLED QUANTUM STATE
Hasan Özgür ÇILDIROĞLU
- 10:45 – 11:00** CAUSALITY IN 3D MASSIVE GRAVITY THEORIES
Ercan KILIÇARSLAN
- 11:00 – 11:15** SURFACE CHARACTERIZATION OF PLASMA MODIFIED POLYPROPYLENE
Giray MECİT
- 11:15 – 11:30** **COFFEE BREAK**
- 11:30 – 12:30** **CHAIR: Gülistan Çiğdem YALÇIN**
- 11:30 – 11:45** THERMAL QCD SUM RULES FOR X(3872) TREATED AS A MOLECULAR STATE
Seher GÜNAYDIN
- 11:45 – 12:00** DYNAMICALLY GENERATED $\pi\Sigma\Sigma$ RESONANCE
Fatma SOLMAZ BAVLI
- 12:00 – 12:15** EXPLANATION OF THE X(4250)[±] AS A MOLECULAR STATE
Fatma SOLMAZ BAVLI
- 12:15 – 12:30** Hybrid Baryons
Birten BARSBAY