

23 AUGUST 2015, SUNDAY
ISTANBUL UNIVERSITY SCIENCE FACULTY, NAZIM TERZIOGLU

- 10:00 – 17:00** **REGISTRATION**
- 17:00 – 19:00** **WELCOME PARTY**

24 AUGUST 2015, MONDAY
ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL
HALL – 1

- 09:00 – 10:30** **OPENING CEREMONY**
- 10:30 – 11:00** **METAMATERIAL BASED NANOBIOSENSORS AND NANOPHOTO DETECTORS**
Ekmel OZBAY
Nanotechnology Research Center, Bilkent University, Bilkent, Ankara
- 11:00 – 11:30** **Coffee Break**
- 11:30 – 13:30** **Chair: Metin ARIK**
- 11:30 – 12:00** **GIANT MICRO-PHOTONICS FOR LASER IGNITION**
Takunori TAIRA
Laser Research Centre for Molecular Science, Institute for Molecular Science, Okazaki, Japan
- 12:00 – 12:30** **EXTREME LIGHT INFRASTRUCTURE – NUCLEAR PHYSICS (ELI-NP):STATUS AND PERSPECTIVES**
Nicolae Victor ZAMFIR
ELI-NP, National Institute for Physics and Nuclear Engineering, Bucharest-Magurele, Romania
- 12:30 – 13:00** **TURKISH ACCELERATOR CENTER (TAC) PROJECT: RESULTS OF THIRD PHASE AND FUTURE PERSPECTIVES**
Ömer YAVAŞ
University of Ankara, Faculty of Engineering, Dept. of Engineering Physics, Ankara, Turkey
- 13:00 – 14:30** **LUNCH**
- 14:30 – 15:30** **POSTER SESSION**
- 01_PP1 - 01_PP9 **(NUCLEAR PHYSICS AND NUCLEAR ENERGY)**
- 03_PP1 - 03_PP4 **(GRAVITATION AND COSMOLOGY)**
- 04_PP1 - 04_PP20 **(ATOMIC AND MOLECULAR PHYSICS)**
- 05_PP1 - 05_PP15 **(HIGH ENERGY PHYSICS)**
- 06_PP1 - 06_PP28 **(CONDENSED MATTER PHYSICS & STATISTICAL PHYSICS)**
- 09_PP1 - 09_PP7 **(THEORETICAL AND MATHEMATICAL PHYSICS)**
- 15_PP1 - 15_PP24 **(APPLIED PHYSICS)**
- 16_PP1 - 16_PP10 **(BIOPHYSICS AND MEDICAL PHYSICS)**
- 18_PP1 **(HISTORY AND PHILISOPHY OF PHYSICS)**
- 15:30 – 15:45** **Coffee Break**

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ISTANBUL UNIVERSITY SCIENCE FACULTY CEMİL BİSEL CONFERENCE HALL

HALL – 1

CONDENSED MATTER and STATISTICAL PHYSICS (06)

15:45 – 17:00 Chair: Ayşe Erol

15:45 – 16:15 THE BLUE LEDS – PROBLEMS AND SOLUTIONS

Evgenia VALCHEVA

Physics Department of Sofia University "St. K. Ohridsky, Sofia / Bulgaria

16:00 – 16:15 THE BLUE LEDS – PROBLEMS AND SOLUTIONS

Boris ARNAUDOV

Physics Department of Sofia University St. K. Ohridsky, Sofia / Bulgaria

16:15 – 16:30 STRUCTURAL, MECHANICAL, AND ELECTRONIC PROPERTIES OF XAlB₄ (X=Li, Mg, Ca, and Na)

Sinasi ELLIALTIOGLU, C.TAYRAN, S. AYDIN, M. ÇAKMAK

16:30 – 16:45 STRUCTURAL AND ELECTRICAL PROPERTIES OF SOME N DOPED SiC NANOSTRUCTURES OBTAINED BY TVA METHOD

Victor CIUPINA, C. P. LUNGU, R. VLADOIU, G. C. PRODAN, S. ANTOHE, C. POROSNICU, I. STANESCU, I. JEPU, S. IFTIMIE, M. BELC, A. MANDES, V. DINCA, E. VASILE, V. ZAROVSKI, V. NICOLESCU

16:45 – 17:00 CRISTAL STRUCTURES, MAGNETIC AND TRANSPORT PROPERTIES OF CALCIUM BASED PEROVSKITES

Emil BURZO

17:00 – 17:15 Coffee Break

17:15 – 18:30 Chair: Sefer Bora LIŞESEVDİN

17:15 – 17:30 ACOUSTIC PHONONS IN PLANAR Si/Ge/Si NANOSTRUCTURES

Igor A. BOGUSH, D.I. NIKA

17:30 – 17:45 ELECTRO-TRANSPORT STUDIES OF SILVER-DOPED FESE_{0.94} SUPERCONDUCTING SYSTEM

Krastyo BUCHKOV, E. NAZAROVA, N. BALCHEV, D. GAJDA, K. NENKOV, A. ZAHARIEV

17:45 – 18:00 PROPERTIES OF THE AlGaAs/InGaAs/AlGaAs HETEROSTRUCTURES WITH DONOR-ACCEPTOR DOPING OF BARRIERS FOR POWER SHF TRANSISTORS

Dimitry V. GULYAEV, K. S. ZHURAVLEV, A. K. BAKAROV, A. I. TOROPOV, D. YU. PROTASOV, A. K. GUTAKOVSKY, B. YA. BER, D. YU. KAZANTSEV

18:00 – 18:15 COMPLEXITY METHODS USED IN THE STUDY OF SOME REAL SYSTEMS WITH WEAK CHARACTERISTIC PROPERTIES

Dode PRENGA, MARGARITA IFTI, JULIAN FEJZAJ

18:15 – 18:30 EFFECTS OF PROTONS AND ALPHA PARTICLES IRRADIATION ON THE PHYSICAL PROPERTIES OF CDS/CDTE HETEROJUNCTION

ADRIAN RADU, V. GHENESCU, M.M. GUGIU, S. IFTIMIE, N. VASILE, N. KORGANCI, L. ION, S. ANTOHE

24 AUGUST 2015, MONDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY COUNCIL ROOM

HALL – 2

HIGH ENERGY PHYSICS (05)

- 15:45 – 17:00 Chair: Suat ÖZKORUCUKLU
- 15:45 – 16:00 PHOTOPRODUCTION OF KALUZA-KLEIN GRAVITONS AT THE LHC
İnanç ŞAHİN
- 16:00 – 16:15 GENERAL STRUCTURE OF DEMOCRATIC MASS MATRIX OF QUARK SECTOR IN E6 MODEL
Rena CİFTÇİ, A.K. CİFTÇİ
- 16:15 – 16:30 A PREDICTION OF D*-MULTI-RHO STATES
Melahat BAYAR, C.W. XIAO, E. OSET
- 16:30 – 16:45 TSALLIS STATISTICS APPROACH TO THE TRANSVERSE MOMENTUM SPECTRA IN RELATIVISTIC NUCLEAR COLLISIONS
Oana RISTEA, A. JIPA, C. RISTEA, C. BESLIU, I. LAZANU, M. CALIN, T. ESANU, V. BABAN, N. TUTURAS, D. ARGINTARU
- 16:45 – 17:00 STRANGE HADRON PRODUCTION IN RELATIVISTIC NUCLEAR COLLISIONS
Catalin RISTEA, A. JIPA, O. RISTEA, C. BESLIU, I. LAZANU, M. CALIN, T. ESANU, V. BABAN, N. TUTURAS, D. ARGINTARU
- 17:00 – 17:15 Coffee Break
- 17:15 – 19:00 Chair: Abbas Kenan ÇİFTÇİ
- 17:15 – 17:30 MEASUREMENT OF THE BRANCHING RATIOS FOR STANDARD MODEL HIGGS DECAYS INTO MUON PAIR AND INTO Z BOSON PAIR AT 1.4 TEV CLIC
Gordana MILUTINOVIC-DUMBELOVIC, I. BOZOVIC-JELISAVCIC, C.GREFE, G. KACAREVIC, S. LUKIC, M. PANDUROVIC, P. ROLOFF, I. SMILJANIC
- 17:30 – 17:45 B^0 AND B_s^0 DECAYS INTO J/PSI PLUS A SCALAR OR VECTOR MESON
Melahat BAYAR, W.H. LIANG, E. OSET
- 17:45 – 18:00 BEAM DYNAMIC SIMULATION AND OPTIMIZATION OF THE CLIC POSITRON SOURCE IN THE PRE-INJECTOR LINAC
Cafer BAYAR, S.DOEBERT, A.K.CİFTÇİ
- 18:00 – 18:15 DESIGN OF THE TRANSFER LINE FROM BOOSTER TO STORAGE RING AT 3 GeV
Cafer BAYAR, A.K.CİFTÇİ
- 18:15 – 18:30 NANOMETER WAVELENGTH FREE ELECTRON LASER OPTIMISATION
Esra DEMIRHAN, H. DURAN YILDIZ
- 18:30 – 18:45 SUPERCONDUCTING AND NORMALCONDUCTING CAVITY SIMULATION COMPARISONS FOR GUN AND MAIN ACCELERATORS
Dilaver PORSUK, H. DURAN YILDIZ

**18:45 – 19:00 STATUS AND PERSPECTIVES OF NEUTRINO PHYSICS AND DARK MATTER SEARCHES AT
PRESENT AND FUTURE EXPERIMENTS
Carmine PAGLIARONE**

24 AUGUST 2015, MONDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY KERIM ERIM LECTURE HALL

HALL – 3

ATOMIC and MOLECULAR PHYSICS (04)

15:45 – 17:00 Chair: Gönül BAŞAR

15:45 – 16:00 SOLID ANGLE CORRECTION FACTORS FOR HEMISPHERICAL AND TWO-STAGE PARALLEL PLATE ANALYZERS IN THE DETECTION OF LONG LIVED PROJECTILE AUGER STATES
Theo J. M. ZOUROS, S. DOUKAS¹, E. P. BENIS

16:00 – 16:15 OPTIMAL INJECTION LENS PARAMETERS FOR IMPROVED ENERGY RESOLUTION OF A HEMISPHERICAL SPECTROGRAPH
Theo J. M. ZOUROS, O. SISE, G. MARTÍNEZ, A. DIMITRIOU, A. LAOUTARIS, I. MADESIS

16:15 – 16:30 LINE SHAPE DEPENDENCE ON THE DISTANCE OF DETECTION FROM THE FOCAL PLANE OF AN ELECTRON HEMISPHERICAL DEFLECTION ANALYSER
Theo J. M. ZOUROS, I. MADESIS, C. NOUNIS, A. LAOUTARIS, A. DIMITRIOU, E. DEFAUX, O. SISE, G. MARTÍNEZ, E. P. BENIS

16:30 – 16:45 THEORETICAL AND EXPERIMENTAL EPR AND OPTICAL STUDIES OF [Cu(1-meim)₄(H₂O)]•2Cl•H₂O SINGLE CRYSTALS
İlkay YILDIRIM, Y. ÇELİK, B. KARABULUT

16:45 – 17:00 STRUCTURAL, SPECTROSCOPIC AND MAGNETIC PROPERTIES OF [Cu(1-meim)₄]²⁺(PF₆)₂
İlkay YILDIRIM, B. KARABULUT

17:00 – 17:15 Coffee Break

17:15 – 18:30 Chair: Kubilay BALCI

17:15 – 17:30 RADIATION PERMEABILITY OF SOME BUILDING MATERIALS, THE PRESENCE OF LINEAR ABSORPTION COEFFICIENTS AND MASS ABSORPTION COEFFICIENTS
Şeyma BİBER TEMİRCİK, A. KÜÇÜKÖNDER

17:30 – 17:45 RADIATION PERMEABILITY, LINEAR AND MASS ABSORPTION COEFFICIENTS OF SOME CERAMIC AND WOOD MATERIALS
Şeyma BİBER TEMİRCİK, A. KÜÇÜKÖNDER

17:45 – 18:00 NUMERICAL EVALUATION OF TWO-CENTER INTEGRALS OVER SLATER TYPE ORBITALS
Sılay Aytaç KURT, S. AKDEMİR, E. ÖZTEKİN

18:00 – 18:15 CALCULATION OF THE ZERO-PRESSURE JOULE-THOMSON COEFFICIENT FOR SOME NON-POLAR MOLECULES
Elif SOMUNCU, B. A. MAMEDOV, M. CAN

18:15 – 18:30 CALCULATION OF SECOND VIRIAL COEFFICIENT USING STOCKMAYER POTENTIAL FOR MOLECULES, CH₃OH, CCl₂F₂ AND CH₃OCH₃
Elif SOMUNCU, I. M. ASKEROV, B. A. MAMEDOV

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ISTANBUL UNIVERSITY SCIENCE FACULTY CAHIT ARF LECTURE HALL

HALL – 4

ASTRONOMY AND ASTROPHYSICS (02)

Astronomy And Astrophysics

15:45 – 17:00 Chair: Derya SÜRGİT

**15:45 – 16:00 SOLAR AND LUNAR CALENDARS OF THE MOUNTAIN SANCTUARY KOKINO
Olga KUZMANOVSKA**

**16:00– 16:15 MULTI-LEVEL LINE TRANSFER USING THE FBILI METHOD
Olga KUZMANOVSKA, O. ATANACKOVIC**

**16:15 – 16:30 GAMMA-RAY "EXCESS" FROM THE CENTER OF THE GALAXY REMNANT FROM AN ACTIVE
PAST?
Jovana PETROVIC, P. D. SERPICO, G. ZAHARIJAS**

**16:30 – 16:45 PERIOD CHANGES IN TWO CONTACT BINARIES: V700 CYG AND PY LYR
Ahmet BULUT, İ. BULUT, C. ÇİÇEK, A. ERDEM**

**16:45 – 17:00 APSIDAL MOTION IN THE ECLIPSING BINARIES: FT ORI AND MZ LAC
Ahmet BULUT, İ. BULUT, C. ÇİÇEK, A. ERDEM**

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Gordana APOSTOLOVSKA

**17:15 – 17:30 THE FIRST SPECTROSCOPIC STUDY OF SOUTHERN BINARY: HD 53570
Derya SÜRGİT**

**17:30 – 17:45 APSIDAL MOTION IN ECCENTRIC ECLIPSING BINARY GG ORION
Erkan YİLAN, İ. BULUT**

**17:45 – 18:00 PHOTOMETRIC STUDY OF THE ECLIPSING BINARY ET PSC
Gökçe Zeynep ÖZALP, B. ÖZKARDEŞ**

**18:00 – 18:15 INVESTIGATION OF ORBITAL PERIOD CHANGES OF SELECTED CONTACT BINARIES
Muhammed Faruk YILDIRIM, F.SOYDUGAN**

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ISTANBUL UNIVERSITY SCIENCE FACULTY FEZA GURSEY LECTURE HALL

HALL – 5

APPLIED PHYSICS (15)

15:45 – 17:00 Chair: Angelos ANGELOPOULOS

15:45 – 16:15 MECHANICAL PROPERTIES OF MODEL LIPID MEMBRANES AND BIOMEMBRANES
Isak BIVAS

Institute of Solid State Physics, Bulgarian Academy of Sciences, Sofia, Bulgaria

16:15 – 16:45 SHEDDING BLOOD OVER MAGNETS
Radu SILAGHI-DUMITRESCU

Babeş-Bolyai University, Cluj-Napoca, Romania

16:45 – 17:00 STUDIES ON BRONZE PRE-MONETARY SIGNS FOUND IN DOBROUDJA USING MICRO-PIXE
AND XRF

Bogdan CONSTANTINESCU, D. CRISTEA-STAN, D. CECCATO, G. TALMATCHI

17:00 – 17:15 DESIGN AND ANALYSIS OF A PERFECT METAMATERIAL ABSORBER FOR SUB-TERAHERTZ
FREQUENCIES

Daniel Voss, C. SABAH, T. WELLMANN, W. ZOUAGHI, H. G. ROSKOS

17:15 – 17:30 Coffee Break

17:30 – 18:45 Chair: Barış KINACI

17:30 – 17:45 EFFECT OF SILVER ADDITION ON MECHANICAL AND ELECTRICAL CHARACTERISTIC OF MELT-
SPUN SN-5 WT% SB ALLOY

Ercan KARAKÖSE

17:45 – 18:00 INFLUENCE OF BISMUTH ADDITION ON THE MECHANICAL AND ELECTRICAL PROPERTIES OF
SN-5 WT% SB ALLOY

Ercan KARAKÖSE

18:00 – 18:15 ZNO/TIO₂ AND TIO₂/ZNO NANOFIBERS PREPARED BY ELECTROSPINNING AND ATOMIC
LAYER DEPOSITION (ALD) FOR PHOTOCATALYSIS

Stefan I. BOYADJIEV, P. BÁRDOS, Z. NAGY, I.M. SZİLÁGYI

18:15 – 18:30 PREPARATION AND CHARACTERIZATION OF COMPOSITE THIN FILMS OF PEDOT:PSS AND
WO₃ NANOPARTICLES FOR GAS SENSING AND ELECTROCHROMIC APPLICATIONS

Stefan I. BOYADJIEV, V.B. GEORGIEVA, I.M. SZİLÁGYI

18:30 – 18:45 THE EXPERIMENTAL DETERMINATION OF INTERFACIAL ENERGIES FOR SOLID CuAl₂ IN
EQUILIBRIUM WITH AL-CU-SI LIQUID

Yemliha ALTINTAS, S. AKSÖZ, K. KEŞLIOĞLU, N. MARAŞLI

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ISTANBUL UNIVERSITY SCIENCE FACULTY SEVKET ERK LECTURE HALL

HALL – 6

NUCLEAR PHYSICS and NUCLEAR ENERGY (01)

15:45 – 17:00 Chair: R. Burcu ÇAKIRLI MUTLU

15:45 – 16:15 RIB PHYSICS WITH HEAVY-ION STORAGE RINGS

Yuri A. LITVINOV

GSI Helmholtzzentrum Für Schwerionenforschung, 64291 Darmstadt, Germany

16:15 – 16:30 CONNECTIONS BETWEEN THE DYNAMICAL SYMMETRIES IN THE MICROSCOPIC SHELL MODEL

Ana I. GEORGIEVA, K.P. DRUMEV

16:30 – 16:45 THE USE OF THE PAIRING - QUADRUPOLE CONNECTIONS IN PQM FOR APPLICATION IN NUCLEAR SYSTEMS

Kalin P. DRUMEV, A.I. GEORGIEVA

16:45 – 17:00 DEPENDENCE OF LEVEL DENSITY IN INTERACTING BOSON-FERMION-FERMION MODEL (IBFFM) OF THE ODD-ODD NUCLEUS ^{196}Au , FROM THE INTERACTING PARAMETERS

Skender KABASHI, S. BEKTESH, S. AHMETAJ, V. VELIU, K. PODRIMQAKU

17:00 – 17:15 Coffee Break

17:15 – 18:30 Chair: Pelin OTANSEV

17:15 – 17:30 THE RELATIONSHIP OF THE REGIONAL GEOLOGICAL STRUCTURE WITH THE RADON CONCENTRATION IN SOIL GAS IN AFYONKARAHİSAR CITY CENTER

Ayla SANDIKCIOĞLU, M.Z. İLHAN, H. A.YALIM, M. BAĞCI, C. BAŞARAN, A. YILDIZ

17:30 – 17:45 CALCULATION OF THE MAGNETIC DIPOLE AND ELECTRIC QUADRUPOLE MOMENTS FOR ^7Be , ^9Be IN THE PRESENCE OF THE YUKAWA POTENTIAL

Lale NICKHAH, A. A. RAJABI, F. PAKDEL, F.MOHAMMADZADEH

17:45 – 18:00 INVESTIGATION OF THE SCATTERING PROBLEM BASED ON THE NUCLEON-NUCLEON INTERACTION

Lale NICKHAH, A. A. RAJABI, F. PAKDEL

18:00 – 18:15 RADIATIVE DECAYS AT LHCb

Lavinia-Elena GIUBEGA

18:15 – 18:30 DETERMINATION OF RADON CONCENTRATION AT YAHYA KAPTAN DISTRICT IN KOCAELI

Kamil KARATAY, N. ÖZKAN, R. T. GÜRAY, C. YALÇIN

24 AUGUST 2015, MONDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY AHMET Y. OZEMRE LECTURE HALL

HALL -7

OPTICS and LASERS (07)

15:45 – 17:00 Chair: Pervin ARIKAN

15:45 – 16:00 ROLE OF REAL AND VIRTUAL PHOTONS IN THE TEMPORAL AND SPECTRAL MODIFICATIONS OF ONE PHOTON WAVE PACKET PROPAGATING IN A 1D WAVEGUIDE
Mohamed Aziz BOUCHENE, S. DEROUAULT

16:00 – 16:15 A NEW THIN FILM COATING SYSTEM AND SOME IMPORTANT APPLICATIONS
Hamdi Şükür KILIÇ

16:15 – 16:30 BESSEL BEAMS FOR MATERIAL PROCESSING
Ramazan SAHIN

16:30 – 16:45 EXPERIMENTAL AND THEORETICAL STUDIES OF OPTICAL PROPERTIES OF Cr³⁺/ Cr²⁺ and V³⁺ CO-DOPED α -ZnAl₂S₄ SPINEL
Leonid KULYUK, S. ANGHEL, M.G. BRIK, K. SUSHKEVICH

16:45 – 17:00 LUMINESCENT PROPERTIES OF COPPER OR CROMIUM DOPED ZINC SELENIDE SINGLE CRYSTAL AND IMPROVED BY CODOPING WITH GADOLINIUM IMPURITY
Evghenii P. GONCEARENCO

17:00 – 17:15 Coffee Break

17:15 – 18:45 Chair: Hamdi Şükür KILIÇ

17:15 – 17:30 THE CHANGES IN OPTICAL DENSITY OF ZRO₂ THIN FILM WITH THE RISE OF THE ABSORBED DOSE
Defne ABAYLI, N. BAYDOGAN

17:30 – 17:45 A TUNABLE AUTOCORRELATOR FOR PULSE MEASUREMENTS IN TARLA IR-FEL FACILITY
Ersin ÇİÇEK, P.ARIKAN, W. SEIDEL

17:45 – 18:00 AN IMPROVED METHOD FOR THE DETERMINATION OF BIREFRINGENCE DISPERSION OF LIQUID CRYSTAL CELL: A SIMULATION STUDY
Seçkin ÖZCAN, E. COŞKUN, Ö. KOCAHAN, S. ÖZDER

18:00 – 18:15 OPTICAL ANTENNA DESIGN FOR ATMOSPHERIC COMMUNICATION SYSTEM
Semih OZTURK, M.KURT

18:15 – 18:30 ULTRA-COLD EXTERNAL CAVITY DIODE LASER SYSTEM
Barış POLAT, I. KUCUKKARA

18:30 – 18:45 EXTERNAL CAVITY DIODE LASER SYSTEM WITH TRANSMISSION GRATING
Barış POLAT, I. KUCUKKARA

24 AUGUST 2015, MONDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY LECTURE HALL 1

HALL – 8

THEORETICAL and MATHEMATICAL PHYSICS (09)

- 15:45 – 17:00 Chair: Viktor URUMOV
- 15:45 – 16:15 LANDAU GHOST POLE PROBLEM IN QUANTUM FIELD THEORY: FROM 50th OF LAST CENTURE TO THE PRESENT DAY
Rauf G. JAFAROV
Institute for Physical Problems of Baku State University, Baku, Azerbaijan
- 16:15 – 16:30 THE NEW QUANTUM-INFORMATION GEOMETRY PARADIGM IN CONDENSED-MATTER PHYSICS
Nikolay S. TONCHEV
- 16:30 – 16:45 DYNAMICS OF TACHYON FIELDS WITH INVERSE POWER POTENTIALS
Goran S. DJORDJEVIC, D.D. DIMITRIJEVIC, M. MILOSEVIC, M. STOJANOVIC
- 16:45 – 17:00 INFORMATION ENTROPY OF TWO-ELECTRON ATOMIC MODELS
Ekrem AYDINER, D. G. DEVECI, S. D. HAN
- 17:00 – 17:15 Coffee Break
- 17:15 – 18:45 Chair: Arzu ÇİLLİ
- 17:15 – 17:30 SPHERICALLY SYMMETRIC ELECTROMAGNETIC FIELD AND CHAPLYGIN GAS WITH CONFORMAL MOTION IN $F(R)$ GRAVITY
Doğukan TAŞER, M. ULU DOĞRU
- 17:30 – 17:45 THE ANALYSIS OF QUANTUM QUTRIT ENTANGLEMENTS IN A QUTRIT BASED HYPER-SPHERE IN TERMS OF GLUING AND COMBINING OPERATORS
Volkan DURAN
- 17:45 – 18:00 THE ANALYSIS OF QUTRIT BASED QUANTUM COIN-FLIP GAMES IN TERMS OF SOME QUTRIT BASED OPERATORS
Volkan DURAN
- 18:00 – 18:15 THE SOLUTIONS AND THERMODYNAMIC DARK ENERGY IN THE ACCELERATING UNIVERSE
Emine Canan GÜNAY DEMİREL
- 18:15 – 18:30 THE DARK ENERGY SOLUTIONS IN THE 5-DIMENSIONAL KALUZA KLEIN SPACE-TIME
Emine Canan. GÜNAY DEMİREL
- 18:30 – 18:45 ON REGULARIZED TRACE OF DIFFERENTIAL OPERATOR OF SECOND ORDER
Duygu ÜÇÜNCÜ, E. GÜL

24 AUGUST 2015, MONDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY LECTURE HALL 2

HALL – 9

METEOROLOGY AND GEOPHYSİCS (11), ENVIRONMENTAL PHYSICS (12)

METEOROLOGY AND GEOPHYSİCS (11)

15:45 – 17:00 Chair: Antoneta DEDA

15:45 – 16:15 **MODELING OF THE GEOMAGNETIC FIELD VARIATIONS: SECULAR VARIATIONS, GEOMAGNETIC JERKS AND REVERSALS**

Bejo DUKA

Department of Physics, Faculty of Natural Sciences, University of Tirana, Albania

16:15 – 16:30 **ANOMALOUS RADON EMISSION AS PRECURSOR OF MEDIUM TO STRONG EARTHQUAKES**
Maria ZORAN

16:30 – 16:45 **SURFACESPHERE–ATMOSPHERE–IONOSPHERE COUPLING MODEL FOR VRANCEA SEISMIC ZONE IN ROMANIA**

Maria ZORAN, R. SAVASTRU, D. SAVASTRU

16:45 – 17:00 **DAMIGING EFFECTS OF THE STRONG HISTORICAL AND MODERN EARTHQUAKES IN REPUBLIC OF MACEDONIA AND NEIGHBORING REGIONS**

Dragana ČERNĪH-ANASTASOVSKA, V. ČEJKOVSKA, K. DROGREŠKA, J. NAJDOVSKA

17:00 – 17:15 Coffee Break

17:15 – 18:45 Chair: Mevlüt KARABULUT

17:15 – 17:30 **QUALITY FACTOR ON THE TERRITORY OF THE REPUBLIC OF MACEDONIA**

Dragana ČERNĪH-ANASTASOVSKA, V. ČEJKOVSKA

17:30 – 17:45 **ESTIMATION OF LOAND SURFACE TEMPERATURE OF GELİBOLU PENINSULA USING LANDSAT 8 DATA**

Erkan YILAN, İ. BULUT, M. GÜRE

ENVIRONMENTAL PHYSICS (12)

17:45 – 18:00 **A MÖSSBAUER AND IR SPECTROSCOPIC STUDY OF CERIUM IRON BOROPHOSPHATE GLASSES**

Mevlüt KARABULUT, H. ERTAP, M. YÜKSEK

18:00 – 18:15 **COMPUTATIONAL STUDY CONCERINING THE EFFECTS OF HERBICIDES AND FUNGICIDES ON THE SOIL ENZYMATIC ACTIVITIES**

Adriana ISVORAN, D. L. VLĂDOIU, M. N. FILIMON, V. OSTAFE

18:15 – 18:30 **EVALUATION OF THE POTENTIAL RADIATION EXPOSURE FROM RADIOACTIVE SCRAP METAL**

Sadik BEKTESHI, S. KABASHI, A. JANUZAJ, Z. TOLAJ

18:30– 18:45 **DISTRUBUTION OF NATURAL RADIONUCLIDES IN SOILS AND BEACH SANDS OF ABANA-ÇATALZEYTİN (KASTAMONU)**

Murat ÖZCAN, A.KURNAZ, M.A. ÇETİNER

18:45– 19:00 REFERENCE LEVELS OF BACKGROUND RADIOACTIVITY FOR BEACH SANDS AND SOILS IN İNEBOLU/KASTAMONU-TURKEY
Savaş TÜRKDOĞAN, A.KURNAZ, A. HANÇERLİOĞULLARI, M.A. ÇETİNER

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL

HALL – 1

09:00 – 11:00 Chair: Ömer YAVAŞ

09:00 – 09:30 NEW SCIENCES BASED ON PHYSICS: ECONOPHYSICS AND SOCIOPHYSICS

Panos ARGYRAKIS

Department of Physics, University of Thessaloniki, Thessaloniki, Greece

09:30 – 10:00 RECENT ADVANCES IN POWDER DIFFRACTION FOR THE NON-DESTRUCTIVE STRUCTURE/MICROSTRUCTURE ANALYSIS OF (NANO)MATERIALS

Matteo LEONI

University of Trento, Trento, Italy

10:00 – 10:30 IRON UNDER HIGH PRESSURE STUDIED WITH SYNCHROTRON MÖSSBAUER SPECTROSCOPY

Esen Ercan ALP

Advanced Photon Source, Argonne National Laboratory, Argonne Illinois 60439, US.

10:30 – 11:00 RESERACH PROGRAMS AT RI BEAM FACTORY

Tomohiro UESAKA

RIKEN Nishina Center For Accelerator-Based Science, Japan

11:00 – 11:30 Coffee Break

11:30 – 13:30 Chair: Esen Ercan ALP

11:30 – 12:00 NOVEL ELECTRO-OPTIC SINGLE CRYSTAL MATERIALS

Kiyoshi SHIMAMURA

National Institute For Materials Science, Tsukuba, Japan

12:00 – 12:30 GAP LABELLING IN QUASICRYSTALS: FROM MICROWAVES TO ULTRACOLD ATOMS

Patrizia VIGNOLO

Institut Non-Linéaire De Nice, Valbonne, France

12:30 – 13:00 SCENARIOS TOWARDS 2050 FOR THE VALUE CHAIN OF PHOTOVOLTAIC POWER SECTOR AND OPPORTUNITIES FOR TURKEY

Şener OKTİK

President of Şişecam Research and Technological Development Presidency

13:00 – 14:30 LUNCH

14:30 – 15:30 POSTER SESSION

01_PP10 - 01_PP18 (NUCLEAR PHYSICS AND NUCLEAR ENERGY)

02_PP1 - 02_PP11 (ASTRONOMY AND ASTROPHYSICS)

04_PP21 - 04_PP40 (ATOMIC AND MOLECULAR PHYSICS)

06_PP29 - 06_PP56 (CONDENSED MATTER PHYSICS & STATISTICAL PHYSICS)

08_PP1 - 08_PP12 (PLASMA AND GAS-DISCHARGE PHYSICS)

10_PP1 - 10_PP6 (COMPUTATIONAL PHYSICS)

15_PP25 - 15_PP48 (APPLIED PHYSICS)

16_PP11 - 16_PP20 (BIOPHYSICS AND MEDICAL PHYSICS)

15:30 – 15:45 Coffee Break

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL

HALL – 1

CONDENSED MATTER and STATISTICAL PHYSICS (06)

15:45 – 17:00 Chair: Victor CUIPINA

15:45 – 16:00 A NEW METHOD TO STUDY NANOSTRUCTURED NEMATIC LIQUID CRYSTALS: FLEXO-DIELECTRO-OPTICAL SPECTROSCOPY
Alexander G.PETROV, Y. MARINOV

16:00 – 16:15 +/-J MODEL ON THE BETHE LATTICE
Erhan ALBAYRAK

16:15 – 16:30 PIPPARD RELATION CLOSE TO THE ALPHA- BETA TRANSITION FOR QUARTZ IN GRANITE
Hamit YURTSEVEN, A. GÜMÜS

16:30 – 16:45 ANALYSIS OF THE THERMAL EXPANSIVITY NEAR THE TRICRITICAL POINT IN DILUTE CHROMIUM ALLOYS
Hamit YURTSEVEN, Ö. TARI

16:45 – 17:00 BOND ORBITAL MODELLING OF ELECTRONIC AND DIELECTRIC PROPERTIES OF HETEROSTRUCTURES
Hilmi ÜNLÜ

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Valerin Kantser

17:15 – 17:30 PRODUCTION AND CHARACTERIZATION OF PARTIALLY CRYSTALLINE Ni₂₃Zr₇₇ METALLIC GLASS
Amra SALČINOVIĆ FETIĆ, S. SULEJMANOVIĆ

17:30 – 17:45 PHOTOLUMINESCENCE PROPERTIES OF BORON DOPED INDIUM SELENIT (INSE) SINGLE CRYSTALS
Hüseyin ERTAP, A. BACIOĞLU, M. KARABULUT

17:45 – 18:00 ELECTRONIC PROPERTIES OF GAAS-(GA,AL)AS QUANTUM WELL-WIRES: THE INFLUENCES OF AZIMUTHAL MAGNETIC AND LASER FIELDS
Bahadır BEKAR, F.K. BOZ

18:00 – 18:15 OPTICAL AND STRUCTURAL PROPERTIES OF AS-GROWN AND ANNEALED GABIAS EPILAYERS
Omer DONMEZ, K. KARA, A. EROL, H. MAKHLOUFI, A. ARNOULT, C. FONTAINE

25 AUGUST 2015, TUESDAY
ISTANBUL UNIVERSITY SCIENCE FACULTY COUNCIL ROOM
HALL – 2
HIGH ENERGY PHYSICS (05)

- 15:45 – 17:00** Chair: Rena ÇİFTÇİ
- 15:45 – 16:00** PARAMETRIZATION STUDY OF UHE UPWARD TAU NEUTRINO SHOWER
Şeyma ATİK, N. ÖZDEMİR, A. YILMAZ, H. DENİZLİ, M. IORI
- 16:00 – 16:15** UNTHINNING STRATEGY USED FOR THE ANALYSIS OF CORSIKA THIN OUTPUT
Şeyma ATİK, N. ÖZDEMİR, A. YILMAZ, H. DENİZLİ, M. IORI
- 16:15 – 16:30** ρDD^* SYSTEM WITH THE FIXED CENTER APPROXIMATION TO THE FADDEEV EQUATION
Beyza DURKAYA, M. BAYAR
- 16:30 – 16:45** DESIGN OF 3 GeV BOOSTER RING LATTICE
Özgür ETISKEN, A.K.CITCI
- 16:45 – 17:00** DESIGN OF AN ALTERNATIVE DAMPING RING SYNCHROTRON FOR THE FCC – e+e-
Özgür ETISKEN, Y. PAPAPHILIPPOU, A.K.CITCI
- 17:00 – 17:15** Coffee Break
- 17:15 – 19:15** Chair: Emmanuel TSESMELIS
- 17:15 – 17:30** FORWARD AND SMALL-X QCD PHYSICS RESULTS FROM CMS EXPERIMENT AT LHC
Deniz SUNAR CERCI (ON BEHALF OF THE CMS)
- 17:30 – 17:45** INCLUSIVE JET CROSS SECTION AND STRONG COUPLING CONSTANT MEASUREMENTS AT CMS
Salim CERCI (ON BEHALF OF THE CMS)
- 17:45 – 18:00** INVESTIGATION OF HEAVY-LIGHT TENSOR MESON
Neşe Y. ÖZTONGA AND J. Y. SÜNGÜ
- 18:00 – 18:15** NEUTRALINO PAIR PRODUCTION IN PHOTON-PHOTON COLLIDER AT THE INTERNATIONAL LINERA COLLIDER
Nasuf SÖNMEZ
- 18:15 – 18:30** THE IMPACT OF MONTE CARLO TUNING ON JET WIDTHS AND INCLUSIVE JET CROSS SECTION AT THE LHC
Nasuf SÖNMEZ
- 18:30 – 18:45** THIRRING NOISE MODEL
Eren TOSYALI, F.AYDOGMUS
- 18:45 – 19:00** NON-LINEAR EFFECTS IN BUNCH COMPRESSOR OF TARLA
Hüseyin YILDIZ, A.AKSOY, P. ARIKAN

**19:00 – 19:15 IMPROVEMENT OF THE HYBRID MODEL FOR GLOW DISCHARGE THROUGH
INCORPORATION OF THE ELECTRON ENERGY BALANCE EQUATION
Ender EYLENCEOĞLU, İ. RAFATOV, A. KUDRYAVTSEV**

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY KERIM ERIM LECTURE HALL

HALL – 3

ATOMIC and MOLECULAR PHYSICS (04)

15:45 – 17:00 Chair: Yasemin AKKAYA

15:45 – 16:00 FOLLOWING ELECTRON IMPACT EXCITATIONS OF SINGLE-ATOM(Rn, Ra, Th, U, Pu) L SUBSHELLS IONIZATION CROSS SECTION CALCULATIONS BY USING LOTZ EQUATION
Mahmut AYDINOL, D. AYDENİZ

16:00 – 16:15 FOLLOWING ELECTRON IMPACT EXCITATIONS OF SINGLE-ATOM [OSMIUM(Os), PLATINUM(Pt), MERCURY(Hg), LEAD(Pb), POLONIUM(Po)] L-SUBSHELLS IONIZATION CROSS SECTION CALCULATIONS BY USING LOTZ' EQUATION
Mahmut AYDINOL, D. AYDENİZ

16:15 – 16:30 GAMMA RADIATION STERILIZATION FEASIBILITY OF SULFAMETHOXAZOLE DRUG RAW MATERIAL: AN ELECTRON SPIN RESONANCE (ESR) STUDY
Şeyda ÇOLAK

16:30 – 16:45 SCREENING OF FREE RADICAL FORMATION IN CRYSTALS OF GUANOSINE BY ESR STUDY
Ayhan USTA, Y. CEYLAN, K. USTA, B. ASIK, H. CINGILLI VURAL

16:45 – 17:00 IDENTIFICATION OF RADIATION-INDUCED RADICAL STRUCTURE IN AZOCALIX[4]ARENE: AN EPR STUDY
Keziban USTA, A. USTA, Y. CEYLAN, O.O. KARAKUS, H. DELIGOZ

17:00 – 17:15 Coffee Break

17:15 – 18:45 Chair: Mahmut AYDINOL

17:15 – 17:30 ALLOWED AND FORBIDDEN TRANSITIONS OF SOME LI-LIKE IONS
Betül ATALAY, G.CELIK, S.ATES

17:30 – 17:45 DETERMINATION OF FREE RADICAL ON POLYCRYSTAL OF 4,4'-BIS(CHLOROACETYL)DIPHENYLETHER: AN ESR STUDY
Yusuf CEYLAN, A. USTA, K. USTA, N. CEYLAN, F. DURMAZ, A. COŞKUN

17:45 – 18:00 IDENTIFICATION OF THE ISOMERS USING PRINCIPAL COMPONENT ANALYSIS (PCA) METHOD
Abdullah KEPCEOĞLU, H.Ş. KILIÇ, Y. GÜNDOĞDU, K.W.D.LEDINGHAM

18:00 – 18:15 CONCENTRATIONS OF MAJOR AND TRACE ELEMENTS IN SEDIMENT AND WATER OF VAN LAKE (TURKEY) BY ICP-OES AND EDXRF
Fatma AKDEMİR, A. ARAZ, F. AKMAN, S. BİLEN, M. R. KAÇAL, R. DURAK

18:15 – 18:30 ESR DATING OF FOSSIL TOOTH ENAMEL
Özgül KARATAS, E. ARAS, A. H. KARADAG

18:30 – 18:45 CHEMICAL EFFECTS ON K SHELL ABSORPTION JUMP FACTORS AND JUMP RATIOS OF 3D TRANSITION METALS COMPOUNDS
Emine Kübra SAKA, A. KÜÇÜKÖNDER

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CAHIT ARF LECTURE HALL

HALL – 4

GRAVITATION AND COSMOLOGY (03)

15:45 – 17:00 Chair: Luka C. POPOVIC

15:45 – 16:00 IMPACT OF THE RADION ON THE TACHYON INFLATION
Goran S. DJORDJEVIC, N. BILIC, D.D. DIMITRIJEVIC, M. MILOSEVIC

16:00– 16:15 CLASSICAL DUAL THEORIES FOR THREE-DIMENSIONAL GRAVITY AS GEOMETRICAL ACTIONS
ON COADJOINT ORBITS
Patricio SALGADO-REBOLLEDO

16:15 – 16:30 EXACT SOLUTIONS OF BULK VISCOUS WITH STRING CLOUD ATTACHED TO STRANGE QUARK
MATTER FOR HIGHER DIMENSIONAL FRW UNIVERSE IN LYRA GEOMETRY
Halife ÇAĞLAR AND S. AYGÜN

16:30 – 16:45 SPECTROSCOPY OF ROTATING LINEAR DILATON BLACK HOLES FROM BOXED
QUASINORMAL MODES
Izzet SAKALLI

16:45 – 17:00 ON THE STATIC WEYL TYPE SOLUTIONS OF THE BRANS-DICKE THEORY
Pınar KİREZLİ, Ö. DELİCE

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Ekrem AYDINER

17:15 – 17:30 DAMPED OSCILLATING DARK ENERGY: IDEAL FLUID AND SCALAR TENSOR DESCRIPTION
Nilay BOSTAN, E. AYDINER

17:30 – 17:45 HIGHER DIMENSIONAL STRANGE QUARK MATTER SOLUTIONS IN SELF CREATION
COSMOLOGY
Ramazan ŞEN, S. AYGÜN

17:45 – 18:00 ON THE VIABLE MODELS OF F(R) GRAVITY
Diyadin CAN

18:00 – 18:15 ON THE BREAKDOWN OF THE CURVATURE PERTURBATION ζ DURING REHEATING
Merve TARMAN ALGAN

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY FEZA GURSEY LECTURE HALL

HALL – 5

SISECAM SESSION

15:45 – 17:00 Chair: Ayşen ERBÖLÜKBAŞ ÖZEL

15:45 – 16:15 CORPORATE RESEARCH AND TECHNOLOGICAL DEVELOPMENT AT ŞİŞECAM

Şener OKTIK

Şişecam Science and Technology Center, Kocaeli, Turkey

16:15 – 16:45 STRUCTURAL STUDY ON SILICATE GLASS MELTS BY HIGH-TEMPERATURE RAMAN SPECTROSCOPY

Terutaka MAEHARA

Asahi Glass Co., Ltd., Yokohama, Japan

16:45 – 17:00 XPS DEPTH PROFILING OF ARCHITECTURAL MULTI-LAYER COATINGS ON GLASS

Özgür BIRER, S. TURKUZ

Şişecam Science and Technology Center, Kocaeli, Turkey

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Elif AKALIN

17:15 – 17:30 OPTICAL CHARACTERIZATION OF SPUTTER DEPOSITED MULTI-LAYERED THIN FILMS BY SPECTROSCOPIC ELLIPSOMETRY

Selen ERKAN

Şişecam Science and Technology Center, Kocaeli, Turkey

17:30 – 17:45 ELECTROCHROMIC PROPERTIES OF TUNGSTEN TRIOXIDE (WO₃) LAYERS GROWN ON ITO/GLASS SUBSTRATES BY MAGNETRON SPUTTERING

Öcal TUNA, A. SEZGİN, R.BUDAKOĞLU, S. TÜRKÜZ

Şişecam Science and Technology Center, Kocaeli, Turkey

17:45 – 18:00 GLASS PROCESSING BY USING FEMTOSECOND LASER

Seydi YAVAŞ, T. YILDIZ, D. ARIBURNU, C. TOL, M. E. YAĞCI

FiberLAST A.Ş., Ankara, TURKEY

18:00 – 18:15 IDENTIFICATION OF GAS BUBBLES IN GLASS PRODUCTS BY MICRO RAMAN SPECTROSCOPY

Hande YURDATAPAN, A. ÖZEL, E. AKALIN, M. ORAN, A. ÖTKEN

İstanbul Üniversitesi, Fen Fakültesi, 34134, Vezneciler, İstanbul, Turkey

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY SEVKET ERK LECTURE HALL

HALL – 6

NUCLEAR PHYSICS and NUCLEAR ENERGY (01)

15:45 – 17:00 Chair: Calin UR

15:45 – 16:15 LOW-LEVEL NUCLEAR SPECTROSCOPY - PAST, PRESENT AND FUTURE

Istvan BIKIT

University of Novi Sad, Faculty of Sciences, Department of Physics, Novi Sad, Serbia

16:15 – 16:30 ENHANCED PROTON-NEUTRON INTERACTIONS IN HEAVY NUCLEI

R.Burcu CAKIRLI, D. BONATSOS, S. KARAMPAGIA, R.F. CASTEN, K. BLAUM, L. AMON SUSAM

16:30 – 16:45 CHARGED-CURRENT INCLUSIVE NEUTRINO CROSS SECTIONS IN THE SUPERSCALING MODEL

Martin V. IVANOV, G.D. MEGIAS, R. GONZÁLEZ-JIMÉNEZ, O. MORENO, M.B. BARBARO, J.A. CABALLERO, T.W. DONNELLY

16:45 – 17:00 ESTIMATION OF NEUTRON SPECTRUM IN THE LOW-LEVEL GAMMA SPECTROSCOPY SYSTEM USING UNFOLDING PROCEDURE

David KNEŽEVIĆ, N. JOVANČEVIĆ, M. KRMAR

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Dimitrios PETRELLIS

17:15 – 17:30 APPLICATIONS OF ALGEBRAIC MODEL IN NUCLEAR STRUCTURE

Viladimir P. Garlstov, A. GEORGIEVA, A. SOLNYSHKIN

17:30 – 17:45 IMPLEMENTATION OF IMRT AND VMAT USING DELTA4 PHANTOM AND PORTAL DOSIMETRY AS DOSIMETRY VERIFICATION TOOLS

Lulzime DACI, K.FRIDSTROM, I.BILBERG

17:45 – 18:00 SPIN DISTRIBUTION OF BINARY DECAY PRODUCTS

Horia PAȘCA

18:00 – 18:15 SPECIAL SOLUTIONS OF THE BOHR HAMILTONIAN FOR SHAPE PHASE TRANSITIONS USING NIKIFOROV-UVAROV METHOD

Melek GOKBULUT, I. YIGITOGU

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY AHMET Y. OZEMRE LECTURE HALL

HALL -7

BIOPHYSICS AND MEDICAL PHYSICS (16)

- 15:45 – 17:00 Chair: Mustafa DEMİR
- 15:45 – 16:00 TRUE BEAM COMMISSIONING EXPERIENCE AT NORDLAND HOSPITALTRUST, NORWAY
Lulzime DACI, K.FRIDSTROM, I.BILBERG
- 16:00 – 16:15 LINAC COMMISSIONING FOR RADIOSURGERY TREATMENTS A SINGLE –INSTITUTION
EXPERIENCE IN ALBANIA
Lulzime DACI, P.MALKAJ, D. MİTRUSHİ
- 16:15 – 16:30 TWO NEW ABIÖGENETİCAL EXPERIMENTS
Dragan V. LUKIĆ
- 16:30 – 16:45 NEUTRONS FROM MEDICAL ACCELERATOR: SIMPLIFIED ACTIVATION TECHNIQUE
Arpad.Á. TÓTH, N.A. TODORVIĆ, M. KRMAR, O.R. KLISURIĆ
- 16:45 – 17:00 DETERMINATION OF APPROXIMATE FETAL DOSE IN NUCLEAR MEDICINE EXAMINATIONS:
EVALUATION OF PREGNANCY CARE
Iffet CAVDAR, N. YEYIN, H. TANYILDIZI, M. ABUQBEITAH, L. USLU, M. DEMIR
- 17:00 – 17:15 Coffee Break
- 17:15 – 18:15 Chair: Bayram DEMİR
- 17:15 – 17:30 COMPARISON OF THE DOSE DISTRIBUTION OBTAINED FROM DOSIMETRIC SYSTEMS WITH
INTENSITY MODULATED RADIOTHERAPY PLANNING SYSTEM IN THE TREATMENT OF
PROSTATE CANCER
Deniz KOÇYIĞIT USLU, M. GÖKÇE, C. ERTUNÇ, T. KARALI
- 17:30 – 17:45 A NOVEL PRINTED FILM SENSOR FOR BIOMEDICAL APPLICATIONS ON FLEXIBLE SUBSTRATE
Kerem DELIKOYUN, MUSTAFA YILMAZ
- 17:45 – 18:00 AN INVESTIGATION OF THE DOSE DISTRIBUTION EFFECT RELATED WITH COLLIMATOR
ANGLE FOR VMAT
Bora TAS, H.BILGE, S.T. OZTURK
- 18:00 – 18:15 NURSE EXPOSURE DOSES RESULTED FROM BONE SCINTIGRAPHY PATIENT
Duygu TUNÇMAN, B.KOVAN, L.POYRAZ, B.DEMİR, C.TÜRKMEN

25 AUGUST 2015, TUESDAY

ISTANBUL UNIVERSITY SCIENCE LECTURE HALL 1

HALL – 8

THEORETICAL and MATHEMATICAL PHYSICS (09)

15:45 – 17:00 Chair: Rauf JAFAROV

15:45 – 16:15 SOME EXACT RESULTS FOR TWO-DIMENSIONAL ISING MODELS WITH FRUSTRATION, HIGHER SPINS, EXTERNAL FIELD AND RANDOMNESS

Viktor URUMOV

Saints Cyril and Methodius University, Skopje, Macedonia

16:15 – 16:30 UNIFIED UNIQUE QUANTUM FIELD THEORY OF NATURE

Israfil I. GUSEINOV

16:30 – 16:45 EXTENSION OF NIKIFOROV-UVAROV METHOD FOR THE SOLUTION OF HEUN EQUATION

Hale KARAYER, D. DEMİRHAN, F. BUYUKKILIC

16:45 – 17:00 GENERALIZED QUANTUM STATISTICS AND LIE (SUPER)ALGEBRAS

Nadialka I. STOILOVA

17:00 – 17:15 Coffee Break

17:15 – 18:45 Chair: Göksel DAYLAN ESMER

17:15 – 17:30 PERTURBATION CALCULATIONS FOR A TRIGONOMETRIC POTENTIAL VIA ASYMPTOTIC ITERATION METHOD (AIM)

Hasan Fatih KISOGLU, H.CIFTCI

17:30 – 17:45 ANALYTICAL SOLUTIONS OF N-DIMENSIONAL SCHRODINGER EQUATION IN THE PRESENCE OF MAKAROV POTENTIAL

A. ÖZFİDAN, A. DURMUŞ

17:45 – 18:00 OSCILLATING CASIMIR FORCE OF TRAPPED SPINLESS BOSON PARTICLES IN ELECTRICAL AND MAGNETIC FIELDS

Seyit Deniz HAN, E. AYDINER

18:00 – 18:15 A NUMERICAL SCHEME BASED ON HAAR WAVELETS FOR COUPLED NONLINEAR SCHRODINGER-KDV EQUATIONS

Fatih BULUT, Ö. ORUÇ, A. ESEN

18:15 – 18:30 APPLICATION OF A PARTICULAR CLASS OF INTEGRALS IN THE THEORY OF DIFFRACTION

Burim KAMISHI, R. BEJTULLAHU, H. SYKJA

18:30 – 18:45 BREAKING THE FOURTH WALL: INTRODUCING THE INTERSTELLAR'S PHYSICS

F. Kamer KARAKUŞ

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL

HALL – 1

09:00 – 11:00 Chair: Alexander G. PETROV

09:00 – 09:30 UNRAVELING THE INTERNAL STRUCTURE OF THE PROTON AT JEFFERSON LAB

Carlos MUÑOZ CAMACHO

Institut de Physique Nucléaire, Orsay, France

09:30 – 10:00 NOISE DRIVEN INTERACTING ELEMENTS IN THE VICINITY OF A STABLE EQUILIBRIUM STATE

Zoltan NÉDA

Babeş - Bolyai University, Department of Physics, Cluj-Napoca, Romania

10:00 – 10:30 EVALUATION OF ARCHEOLOGICAL CERAMIC OBJECTS BY ANALYTICAL TECHNIQUES

Fatos YLLI

Institute of Applied Nuclear Physics, Tirana University, Tirana, Albania

10:30 – 11:00 INTENSE LASER INDUCED ELECTRONIC AND NUCLEAR RESCATTERING MECHANISMS IN MOLECULAR DYNAMICS

Osman ATABEK

Institut des Sciences Moléculaires d'Orsay, CNRS, Université Paris-Sud, Bât. 350, Campus d'Orsay 91405 Orsay, France

11:00 – 11:30 Coffee Break

11:30 – 13:30 Chair: Osman ATABEK

11:30 – 12:00 PERSPECTIVES IN HIGH-POWER LASERS AND NUCLEAR PHYSICS AT ELI-NP

Calin A. UR

ELI-NP / IFIN-HH, Bucharest-Măgurele, Romania

12:00 – 12:30 40 YEARS OF LATTICE GAUGE THEORY: ITS IMPACT IN PHYSICS, TECHNOLOGY AND PHYSICS EDUCATION IN GENERAL AND IN THE BALKANS IN PARTICULAR

Artan BORIÇI

University of Tirana, Tirana

12:30 – 13:00 FIRST-PRINCIPLES INVESTIGATION OF FRICTION: GRAPHENE FLAKE ON GRAPHENE OR SIC SURFACE

Oguz GULSEREN

Department of Physics, Bilkent University, 06800, Ankara, Turkey

13:00 – 13:30 FABRICATION OF BULK NANOSTRUCTURED MATERIALS WITH ADVANCED PROPERTIES BY SEVERE PLASTIC DEFORMATION (SPD) TECHNIQUES

Aferdita PRIFTAJ VEVECKA

Department of Engineering Physics, Polytechnic University of Tirana, Sheshi " Nene Tereza", N.4, Tirana, Albania

13:30 – 14:30 LUNCH

14:30 – 15:30 POSTER SESSION

01_PP19 - 01_PP27 (NUCLEAR PHYSICS AND NUCLEAR ENERGY)
04_PP41 - 04_PP60 (ATOMIC AND MOLECULAR PHYSICS)
06_PP57 - 06_PP74 (CONDENSED MATTER PHYSICS & STATISTICAL PHYSICS)
12_PP1 - 12_PP11 (ENVIRONMENTAL PHYSICS)
13_PP1 - 13_PP18 (ALTERNATIVE SOURCE OF ENERGY)
15_PP49 - 15_PP70 (APPLIED PHYSICS)
16_PP21 - 16_PP29 (BIOPHYSICS AND MEDICAL PHYSICS)
15:30 – 15:45 Coffee Break

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL

HALL – 1

CONDENSED MATTER and STATISTICAL PHYSICS (06)

15:45 – 17:00 Chair: Şinasi ELLİALTOĞLU

15:45 – 16:00 EXCITONS IN A HEXAGONAL GRAPHENE-LIKE DONOR–ACCEPTOR LATTICE
Ivan J. LALOV, I. ZHELYZKOV

16:00 – 16:15 HALL EFFECT IN THE SUPERCONDUCTING FERROMAGNET UCOGE
Danica KRSTOVSKA, E. STEVEN, A. KISWANDHI, J.S. BROOKS

16:15 – 16:30 ELECTRONIC STRUCTURE OF CYLINDRICAL TOPOLOGICAL INSULATOR NANOTUBES AND
NANOPORES
Valeriu G. KANTSER, I.M. BEJENARI

16:30 – 16:45 INTERFACE STATES IN TOPOLOGICAL INSULATOR HETEROSTRUCTURES DRIVEN BY
POLARIZATION AND ANTIFERROMAGNETIC ORDERING
Valeriu G. KANTSER, M. DRAGUTSAN

16:45 – 17:00 STUDY OF PHYSICAL PROPERTIES OF ZNSE/CDTE HETEROJUNCTION BASED PHOTOVOLTAIC
CELLS
Sorina IFTIMIE, L. ION, A. RADU, T.L. MITRAN, O. TOMA, B. BITA, N. KORGANCI, S. ANTOHE

17:00 – 17:15 Coffee Break

17:15 – 18:30 Chair: Ivan LALOV

17:15 – 17:30 THE MEASUREMENTS OF ELECTRICAL AND THERMAL CONDUCTIVITY VARIATIONS WITH
TEMPERATURE AND PHONON COMPONENT OF THE THERMAL CONDUCTIVITY IN THE IN-BI
INTERMETALLIC ALLOYS
Sezen AKSÖZ, P.ATA, Ü. BAYRAM, Y. ALTINTAS, E. ÖZTÜRK, K. KEŞLİOĞLU, N. MARAŞLI

17:30 – 17:45 ON QUANTUM ENTANGLEMENT AND QUANTUM INFORMATION
Azmi Ali ALTINTAŞ

17:45 – 18:00 INTRINSIC DEFECT DEPENDENT MAGNETO – ELECTRICAL ANALYSES OF ZNO AND (ZN,W)O
THIN FILMS
Musa Mutlu CAN

18:00 – 18:15 PHASE DIAGRAMS OF SPIN-3/2 ISING MODEL IN THE PRESENCE OF RANDOM CRYSTAL
FIELD WITHIN THE EFFECTIVE FIELD THEORY BASED ON TWO APPROXIMATIONS
Ali YIGIT, E. ALBAYRAK

18:15 – 18:30 THE CHAOTIC BEHAVIOURS IN SHOCK WAVES
Eren TOSYALI, F. AYDOGMUS

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY COUNCIL ROOM

HALL – 2

ALTERNATIVE SOURCE OF ENERGY (13)

- 15:45 – 17:00 Chair: Israfil GUSEINOV
- 15:45 – 16:00 ELECTROCHEMICAL DEPOSITION OF CZTS THIN FILMS
Maarif A. JAFAROV, E.F. NASIROV, S.A. JAHANGIROVA
- 16:00 – 16:15 PHOTOVOLTAIC CELLS BASED ON BIOLOGIC/POLYMERIC THIN FILMS
Stefan ANTOHE
- 16:15 – 16:30 ELECTRICAL PROPERTIES AND FEATURES OF THE BAND STRUCTURE of $(\text{CuInSe}_2)_{1-x}(\text{FeSe})_x$
($x = 0.03, 0.05, 0.1$) ALLOYS
Ulkar F. SAMADOVA, SH. M. HASANLI, YU. M. BASALAEV, M.R. ALLAZOV
- 16:30 – 16:45 COMPLEX IMPEDANCE ANALYSIS IN OXIDE SEMICONDUCTORS FOR SOLID OXIDE FUEL CELL
Shalima SHAWUTI
- 16:45 – 17:00 A NEW NATURAL DYE SOURCE-PELARGONIUM FLOWERS FOR DYE-SENSITIZED SOLAR CELLS
Mücella ÖZBAY KARAKUŞ, H. ÇETİN
- 17:00 – 17:15 Coffee Break
- 17:15 – 18:45 Chair: Danica KRSTOVSKA
- 17:15 – 17:30 SYNTHESIS AND CHARACTERIZATION OF GRAPHENE UNDOPEDED AND DOPED $\text{Ca}_{3-x}\text{Eu}_x\text{Co}_4\text{O}_z$ NANOCERAMICS WITH THERMOELECTRIC EFFECT
Serhat KOÇYİĞİT, A. AYTİMUR, İ. USLU
- 17:30 – 17:45 THE EFFICIENCY EVALUATION OF USING LED LAMPS INSTEAD OF CONVENTIONAL LAMPS IN
EAST BLACKSEA REGION'S HIGHWAY AND RIZE CITY
Hüseyin KANBUR, Y. KARAN, N. AKÇAY
- 17:45 – 18:00 THE EFFECT OF MIXING RATIOS OF P3HT:PCBM ON THE PERFORMANS OF ORGANIG SOLAR
CELLS
Zakir ÇALDIRAN, Z. ORHAN, Ş. AYDOĞAN and M. BİBER
- 18:00 – 18:15 ESTIMATION OF SOLAR RADIATION WITH ARTIFICIAL NEURAL NETWORK USING SATELLITE
DATA IN MEDITERRANEAN REGION
Mehmet BOLAT, M. ŞAHİN
- 18:15 – 18:30 DYNAMIC MODELING OF ELECTRICITY SUPPLY-DEMAND SYSTEM: A MATHEMATICAL
APPROACH
Sadik BEKTESHI, S. KABASHI, S. AHMETAJ, I. SLAUS, A. ZIDANSEK, K. PODRIMQAKU, S.
KASTRATI
- 18:30 – 18:45 ESTIMATION OF WIND SPEED WITH ARTIFICIAL NEURAL NETWORK
Muhammet Yusuf AKTAÇ, M. ŞAHİN

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY KERIM ERIM LECTURE HALL

HALL – 3

ATOMIC and MOLECULAR PHYSICS (04)

- 15:45 – 17:00 Chair: Osman ATABEK
- 15:45 – 16:00 MOLECULAR DYNAMICS AT fs TIMESCALE
Constantine KOSMIDIS, CHR. PAPADOPOULOU, S. KAZIANNIS
- 16:00 – 16:15 TIME-OF-FLIGHT ANALYSIS OF HEMISPHERICAL DEFLECTION ANALYZERS
Omer SISE, T.J.M. ZOUROS
- 16:15 – 16:30 ATOMIC GAUSSIAN TYPE ORBITALS AND THEIR FOURIER TRANSFORMS VIA THE RAYLEIGH EXPANSION
Niyazi YÜKÇÜ
- 16:30 – 16:45 TRANSITION PROBABILITIES OF NEUTRAL ANTIMONY
Betül ATALAY, G.CELIK, I.KANAT OZTURK
- 16:45 – 17:00 EVALUATION OF DETECTION LIMITS WITH WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY
Ebru SENEMTAŞI ÜNAL, N. EKİNCİ, Ö. ULUSOY
- 17:00 – 17:15 Coffee Break
- 17:15 – 19:00 Chair: İpek KANAT ÖZTÜRK
- 17:15 – 17:30 THEORETICAL AND EXPERIMENTAL STUDIES OF THE MOLECULAR ORBITAL BONDING COEFFICIENTS FOR Cu²⁺ ION IN CESIUM HYDROGEN OXALATE SINGLE CRYSTALS
Emel KALFAOĞLU, B. KARABULUT
- 17:30 – 17:45 THEORETICAL INVESTIGATION OF THE EPR AND MOLECULAR ORBITAL COEFFICIENTS PARAMETERS FOR Cu²⁺ ION IN [Zn(sac)₂(en)₂] POWDER CRYSTALS
Emel KALFAOĞLU, B. KARABULUT
- 17:45 – 18:00 THEORETICAL ANALYSIS OF THE ELECTRON PARAMAGNETIC RESONANCE FOR Cu²⁺ ION IN [Zn(hydet-en)₂Pd(CN)₄] POWDER CRYSTALS
Emel KALFAOĞLU, B. KARABULUT
- 18:00 – 18:15 EFFICIENCY OF IMPROVED EXPONENTIAL TYPE ORBITALS WITH DIFFERENT HYPERBOLIC COSINE FUNCTIONS
Erdem ÖZTÜRK, M. ERTÜRK
- 18:15 – 18:30 APPLICATION OF THE SIZE-EXTENSIVITY CORRECTIONS APPROACHES TO THE LIMITED CONFIGURATION INTERACTION METHODS
Esra KUŞ, E. BOZDOĞAN, M. ERTÜRK, L. MEISSNER
- 18:30 – 18:45 EXPERIMENTAL AND THEORETICAL APPROACHES FOR IDENTIFICATION OF 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 8 – DODECAFLUORO – 5 – METHYLOCTYL 4-(ACRYLOYLOXY) BENZOATE
Gözde EKER, S. CETİN, U. SOYKAN, B.OZTURK SEN, G.YILDIRIM

**18:45 – 19:00 DETERMINATION OF K SHELL ABSORPTION JUMP FACTORS FOR As, Se, Sr, Mo, Ag, Ba, La
and Ce COMPOUNDS
Hatice TOPUZ, A. KÜÇÜKÖNDER**

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY AHMET Y. OZEMRE LECTURE HALL

HALL - 4

APPLIED PHYSICS (15)

15:45 – 17:00 Chair: Deniz DEĞER ULUTAŞ

15:45 – 16:00 EFFECT of GROWTH RATES on PRIMARY DENDRITE ARM SPACING in DIRECTIONALLY SOLIDIFIED an Al-10wt.%Zn ALLOY
Emine ACER, H. EROL, M. GÜNDÜZ

16:00 – 16:15 THE TRANSITION OF WATER MOLECULE BEHAVIOUR FROM SUB-ATOMIC TO CLASSIC SCALE
Ender AKDOĞAN, M. ÇİFTÇİ

16:15 – 16:30 ION CONDUCTING THIN FILM LAYER STUDIES FOR THE PURPOSE OF CONSTRUCTING AN ALL-SOLID-STATE ELECTROCHROMIC DEVICE
Gamze ATAĞ, Ö. DUYAR COŞKUN

16:30 – 16:45 PREPARATION AND CHARACTERIZATION OF ZIRCONIA-GADOLINIA-NEODYMIA NANOCRYSTALLINE CERAMIC PIGMENTS
Arda AYTİMUR, S. KOÇYİĞİT, İ. USLU

16:45 – 17:00 BOLOMETRIC RESPONSE OF SUPERCONDUCTING YBCO MICROBRIDGES IN THE NEAR- INFRARED REGION
Yiğitcan UZUN, O. KURAN, İ. AVCI

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Rıdvan KARAPINAR

17:15 – 17:30 IMPROVEMENT OF MECHANICAL CHARACTERISTICS AND PERFORMANCES WITH NI DIFFUSION MECHANISM THROUGHOUT BI-2223 SUPERCONDUCTING MATRIX
Habibullah BİLGE, N.K. SARITEKİN, M.F. KAHRAMAN, Y. ZALAOĞLU, M. PAKDİL, M. DOGRUER, G.YILDIRIM

17:30 – 17:45 MEASUREMENT OF INDOOR Rn-222 ACTIVITY CONCENTRATIONS AT THE ÇİFTLİK VILLAGE (IYIDERE/RİZE) KNOWN FOR ITS HIGH CANCER INCIDENCES
Ömer Faruk DEMİRTAŞ, E. DURSUN, S. AKBULUT

17:45 – 18:00 DETERMINATION OF RADON ACTIVITY CONCENTRATION IN THE CAVE OF PILEKİ USING A RADIM 3A ACTIVE RADON MONITOR AND CR-39 PASSIVE TRACK DETECTORS
Ömer Faruk DEMİRTAŞ, S. AKBULUT, E. DURSUN, U. ÇEVİK

18:00 – 18:15 ELECTRICAL PROPERTIES of Sn DOPED CdS THIN FILMS GROWN by ULTRASONIC SPRAY PYROLYSIS TECHNIQUE
Zeynep D. EYGİ, V. BİLGİN, B. DEMİRSELÇUK

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY FEZA GURSEY LECTURE HALL

HALL – 5

APPLIED PHYSICS (15)

15:45 – 17:00 Chair: Isak BIVAS

15:45 – 16:00 STRUCTURE STUDY OF BACE0.85Y0.15O3- Δ (BCY15) AS SOFC MATERIAL
Kiril A. KREZHOV, D. VLADIKOVA, I. GENOV, E. SVAB, M. FABIAN

16:00 – 16:15 MONITORING SYSTEM FOR TESTING THE RADIATION HARDNESS OF A KINTEX-7 FPGA
Vlad-Mihai PLACINTA, L.N. COJOCARIU

16:15 – 16:30 MAGNETOHYDRODYNAMIC EFFECTS IN A NOVEL ELECTROMAGNETICAL STIRRING
CONFIGURATION
Daniel VIZMAN, R.A. NEGRILA, A.POPESCU

16:30 – 16:45 FABRICATION AND CHARACTERIZATION OF CUO THIN FILM / SI NANOWIRES
HETEROJUNCTION PHOTODIODES
Funda AKSOY AKGUL, G. AKGUL, H. E. UNALAN, R. TURAN

16:45 – 17:00 ELECTROCHROMIC DEVICE DESIGN AND FABRICATION INCLUDING NB2O5 THIN FILMS AS A
CATHODIC LAYER
Özlem DUYAR COŞKUN

17:00 – 17:15 Coffee Break

17:15 – 18:15 Chair: Zehra CAN

17:15 – 17:30 CO SENSING PROPERTIES OF POLYANILINE-BASED SENSOR
Mücella ÖZBAY KARAKUŞ, A. DELİBAŞ, H. ÇETİN

17:30 – 17:45 A TEST, MEASUREMENT AND CLASSIFICATION SYSTEM FOR THE PV CELLS
Mustafa YILMAZ, C. KARAÇETİN

17:45 – 18:00 PULSED LASER NANOSCRIBING OF ITO FILMS FOR SOLAR CELL APPLICATIONS
Ramazan SAHIN, I. KABACELIK

18:00 – 18:15 A BUTTON - TYPE BEAM POSITION MONITOR DESIGN FOR TARLA FACILITY
Müge TURAL GUNDOGAN, Ç. KAYA, Ö. YAVAŞ

26 AUGUST 2015, WEDNESDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY SEVKET ERK LECTURE HALL

HALL – 6

NUCLEAR PHYSICS and NUCLEAR ENERGY (01)

- 15:45 – 17:00 Chair: Ana GEORGIEVA
- 15:45 – 16:15 TOTAL ABSORPTION MEASUREMENTS FOR APPLICATIONS AND NUCLEAR STRUCTURE
Alejandro ALGORA
IFIC (CSIC-Univ. Valencia), Valencia Spain - MTA ATOMKI, Debrecen, Hungary
- 16:15 – 16:30 MEASUREMENT OF RATIOS OF AUGER ELECTRONS EMISSION PROBABILITIES AND K-L SHELL VACANCY TRANSFER PROBABILITY FOR BARIUM COMPOUNDS
Burhanettin Göker DURDU, E. AKKUTLU, A. KUCUKONDER
- 16:30 – 16:45 THE DEFORMATION DEPENDENT MASS MODEL OF NUCLEAR STRUCTURE
Dimitrios PETRELLIS
- 16:45 – 17:00 STUDY OF DEUTERON INDUCED CROSS SECTION OF SOME STRUCTURAL FUSION MATERIAL
Tarik SİDDİK
- 17:00 – 17:15 Coffee Break
- 17:15 – 19:00 Chair: Istvan BIKIT
- 17:15 – 17:30 MEASUREMENTS OF RADON CONCENTRATION IN INDOOR, SOIL AND DRINKING WATER IN GEYVE, SAKARYA
Yasemin SAĞLAM, F. ERTUĞRAL, H.YAKUT, E.TABAR, N. DEMİRCİ, R.AKKAYA
- 17:30 – 17:45 MEASUREMENT OF NATURAL AND ¹³⁷CS RADIOACTIVITY AT İZMİT BAY IN KOCAELİ, TURKEY
İbrahim ÖKSÜZ, R.T. GÜRAY, N. ÖZKAN, C. YALÇIN, H.A. ERGÜL, S. AKSAN
- 17:45 – 18:00 ELECTRON SCREENING EFFECT IN DEUTERON-DEUTERON FUSION REACTIONS AT EXTREMELY LOW ENERGIES IN METALLIC ENVIRONMENTS
Fadime KUŞTAN-KILIÇ, A. İ. KILIÇ, K. CZERSKÍ, D. WEISSBACH, A. HUKE, G. RUPRECHT, M. KACZMARSKÍ, N. TARGOSZ-SLECZKA
- 18:00 – 18:15 RADON EXHALATION RATES AND EFFECTIVE RADIUM CONTENTS OF THE SOIL SAMPLES IN ADAPAZARI, TURKEY
Adem KUŞ, H.YAKUT, E. TABAR
- 18:15 – 18:30 INDOOR RADON MEASUREMENTS IN MUŞ, TURKEY WITH CR-39 DETECTORS
Özlem ULUSOY, N. EKİNCİ, E. SENEMTAŞI ÜNAL, E. KAVAZ, E. CINAN
- 18:30 – 18:45 COMPARISON OF THE USE OF CLAY BRICK AND PUMICE BRICK AS A STRUCTURAL BUILDING MATERIAL FROM THE RADIOLOGICAL POINT OF VIEW
Kemal DEMİR, Ş. TURHAN, A. VARİNLİOĞLU
- 18:45–19:00 CALCULATION OF THE NEUTRON DIFFUSION EQUATION BY USING HOMOTOPY PERTURBATION METHOD
Halide KOKLU, A. ERSOY, M. C. GULECYUZ, O. OZER

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL

HALL – 1

09:00 – 11:00 Chair: Nikolay S. TONCHEV

09:00 – 09:30 **TOPOLOGICAL INSULATORS, SUPERCONDUCTORS AND MAJORANA FERMIONS AND THEIR APPLICATIONS**

Feo V. KUSMARTSEV

Department of Physics, Loughborough University, Le11 3tu, UK

09:30 – 10:00 **SPECTROSCOPY AND SPECTRO-POLARIMETRY AS A TOOL FOR MEASURING BLACK HOLE MASSES IN ACTIVE GALACTIC NUCLEI**

Luka Č. POPOVIĆ

Astronomical Observatory, Volgina 7, 11150 Belgrade, Serbia

10:00 – 10:30 **EDUCATION FOR SUSTAINABLE DEVELOPMENT - RESOURCES FOR PHYSIC'S AND SCIENCE'S TEACHERS**

Stevan JOKIĆ

The Projects Ruka U Testu And Sustain, Vinča Institut of Nuclear Science, Belgrade, Serbia

10:30 – 11:00

11:00 – 11:30 **Coffee Break**

11:30 – 13:30 Chair: Goran DJORDJEVIC

11:30 – 12:00 **CERN – A GATEWAY TO SCIENCE AND TECHNOLOGY**

Emmanuel TSESMELIS

European Organization for Nuclear Research, Geneva, Switzerland

12:00 – 12:30 **THEORETICAL AND EXPERIMENTAL STUDY OF OBJECTS COMPOSED OF SPHERICAL DIPOLES**

Igor STANKOVIĆ

Institute of Physics Belgrade, University of Belgrade, Pregrevica 118, RS-11080 Zemun, Serbia

12:30 – 13:00 **EXPERIMENTAL LINE SHAPES EMITTED FROM THE PLASMA**

Stevica DJUROVIĆ

University of Novi Sad, Faculty of Sciences, Department of Physics, Novi Sad, Serbia

13:00 – 13:30 **ELECTROMECHANICAL RESPONSE IN CARBON NANOTUBES: IMPACT OF STRAIN-INDUCED DEFORMATIONS**

Tatjana VUKOVIĆ

Faculty of Physics University of Belgrade, Belgrade, Serbia

13:30 – 14:30 **LUNCH**

14:30 – 15:30 **POSTER SESSION**

01_PP27 - 01_PP35 (NUCLEAR PHYSICS AND NUCLEAR ENERGY)

04_PP61 - 04_PP79 (ATOMIC AND MOLECULAR PHYSICS)

06_PP75 - 06_PP112 (CONDENSED MATTER PHYSICS&STATISTICAL PHYSICS)

07_PP1 - 07_PP13 (OPTICS AND LASERS)

11_PP1 - 11_PP3 (METEOROLOGY AND GEOPHYSICS)
15_PP71 - 15_PP94 (APPLIED PHYSICS)
16_PP30 - 16_PP38 (BIOPHYSICS AND MEDICAL PHYSICS)
17_PP1 - 17_PP11 (PHYSICS EDUCATION)

15:30 – 15:45 Coffee Break

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CEMIL BILSEL CONFERENCE HALL

HALL – 1

CONDENSED MATTER and STATISTICAL PHYSICS (06)

- 15:45 – 17:00 Chair: Mevlüt KARABULUT
- 15:45 – 16:00 HYDROGENIC-IMPURITY GROUND STATE IN GaAs / Ga_{1-x}In_xAs SINGLE QUANTUM WELL STRUCTURES
Pınar BAŞER, İ. ALTUNTAŞ, S. ELAGOZ
- 16:00 – 16:15 ANNEALING EFFECT ON STRUCTURAL AND OPTICAL PROPERTIES OF CHEMICAL BATH DEPOSITED MnS THIN FILM
Cemal ULUTAS, C.GUMUS
- 16:15 – 16:30 GRAIN BOUNDARY RELATED ELECTRICAL TRANSPORT IN AL-RICH ALXGA_{1-x}N LAYERS GROWN BY METAL-ORGANIC CHEMICAL VAPOR DEPOSITION
Mehmet TAMER, M. K. ÖZTÜRK, A.GÜLTEKİN, Y.BAŞ, S. ÖZÇELİK, E. ÖZBAY
- 16:30 – 16:45 TEMPERATURE AND ELECTRIC FIELD DEPENDENCE OF LOCALIZATION IN MODULATION DOPED GaInNAs/GaAs QUANTUM WELL STRUCTURES
FERHAT Nutku, F. Sarcan, Ö. Dönmez, F. Kuruoğlu, S. Mutlu, A. EROL, S. YILDIRIM AND M.Ç. ARIKAN
- 16:45 – 17:00 INVESTIGATION OF PHYSICAL PROPERTIES Y (YTTRIUM) - SUBSTITUTED BI-2212 SUPERCONDUCTOR
Hakan GÜNDOĞMUŞ
- 17:00 – 17:15 Coffee Break
- 17:15 – 19:15 Chair: Ömer DÖNMEZ
- 17:15 – 17:30 GRAPHENE BASED BIOSENSORS
Hikmet Hakan GÜREL, B. SALMANKURT
- 17:30 – 17:45 (3-AMİNOPROPYL)TRIETHOXYSILANE (APTES) COATED CUBIC MAGNETITE NANOPARTICLES FOR HYPERTHERMIA: PREPARATION AND CHARACTERIZATION
Mustafa COŞKUN, S. ÇİTOĞLU
- 17:45 – 18:00 ELECTRONIC PROPERTIES OF Tl_{1-x}In_{1-x}Sn_xSe₂ (x=0, 0.25) ALLOYS
İsmail YÜCEL, S. ÇAKMAK, E. ARTUNÇ, A. BABANLI
- 18:00 – 18:15 MODIFICATION of MELT-SPUN ALUMINIUM ALLOYS by SCANDIUM
Yeliz YILMAZ, F. YILMAZ, S.ERGEN, U. KÖLEMEN, O. UZUN
- 18:15 – 18:30 THERMODYNAMICAL and STRUCTURAL PROPERTIES OF SOME LIQUID TRANSITION METALS NEAR MELTING POINT
Sevilay UÇAR, S. KARTAL, T. ARMAĞAN
- 18:30 – 18:45 ELECTRICAL RESISTIVITY OF LIQUID TRANSITION METALS NEAR MELTING POINT
Sevilay UÇAR, S. KARTAL, T. ARMAĞAN

18:45 – 19:00 MODIFICATION OF INDUCTION MELTED Al-5Cu ALLOY BY THE MINOR ADDITION OF Sc
Cengiz TEMİZ, F.YILMAZ, S. ERGEN, O.UZUN, U. KÖLEMEN

19:00 – 19:15 ELECTRICAL CHARACTERIZATION OF THE MOCVD GROWN SINGLE CRYSTAL P-TYPE AND N-TYPE GaInAs on GaAs and InP SUBSTRATES
Gülüz KAYA, M. YALCINKAYA, A.A. KIZILBULUT, S. ELAGOZ

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY COUNCIL ROOM

HALL – 2

PLASMA and GAS DISCHARGE PHYSICS (08), METROLOGY AND INSTRUMENTATION (19), HISTORY AND
PHILISOPHY OF PHYSICS (18)

Plasma and Gas-Discharge Physics (08)

15:45 – 17:15 Chair: Stevica DJUROVIC

15:45 – 16:00 PSEUDOSPARK SWITCH (PSS) CHARACTERISTICS UNDER DIFFERENT OPERATION
CONDITIONS

Ahmad K. AHMAD, KAMAL H. LATEEF, BASSMA H. HAMAD

16:00 – 16:15 VALIDATION AND PARALLELIZATION OF THE PARTICLE IN CELL/MONTE CARLO COLLISION
NUMERICAL CODE FOR THE RF DISCHARGE SIMULATIONS

Cemre KUŞOĞLU SARIKAYA, İ. RAFATOV

16:15 – 16:30 THE RESPONSE OF HIGH LATITUDE IONOSPHERE TO GEOMAGNETIC ACTIVITY CHANGES
ERDİNÇ TİMOÇİN, İ. ÜNAL, K. AKSAÇ

Metrology And Instrumentation (19)

16:30 – 16:45 TRACEABLE DYNAMIC SURFACE CHANGES OF PROSPECTIVE MASS ARTIFACTS IN DIFFERENT
ENVIROEMENTAL CONDITIONS

Sevda KAÇMAZ, C.YILMAZ, B. SAKAR, O.OZTURK

History and Philisophy of Physics (18)

16:45 – 17:00 FROM “NATURAL PHILSOPHER” TO “PHYSICIST” : ANALYZING THE CONCEPT OF “SCIENCE”
IN TERMS OF TWO TITLES IN THE CONTEXT OF HISTORY OF PHYSICS

Volkan DURAN

17:00 – 17:15 Coffee Break

17:15 – 18:00 Chair: Artan BORICI

17:15 – 17:30 PHYSICS EDUCATION IN THE GREEK COMMUNITY OF ISTANBUL (19TH C.)- SCIENTIFIC
INSTRUMENTS AND EXPERIMENTS IN ELECTROSTATICS.

Panagiotis LAZOS, G. VLAHAKIS

17:30 – 17:45 PHYSICS EDUCATION IN THE GREEK COMMUNITY OF ISTANBUL (19TH C.) - THE BOOKS.

Panagiotis LAZOS, G. VLAHAKIS

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY KERIM ERIM LECTURE HALL

HALL – 3

PHYSICS EDUCATION (17)

15:45 – 17:00 Chair: Stefan JOKIC

**15:45 – 16:00 PHYSICS LABORATORY AS A TEACHING METHOD: SOME ADVANTAGES IN PSYCHOMOTOR AND AFFECTIVE DOMAIN
Boce MITREVSKI, O. ZAJKOV**

**16:00 – 16:15 THE EFFECT OF SCIENCE DEMONSTRATIONS AS A COMMUNITY SERVICE ACTIVITY ON PRE-SERVICE SCIENCE TEACHERS' TEACHING PRACTICES
Derya KALTAKCI GUREL**

**16:15 – 16:30 WHICH TOPICS DO THE TURKISH STUDENTS PREFER TO MAKE SIMPLE SCIENCE PROJECTS ?
Ramazan ÇEKEN**

**16:30 – 16:45 AN INTERDISCIPLINARY VIEWPOINT ON PHYSICS CONCEPTS IN TURKISH SCIENCE CURRICULUM
Ramazan ÇEKEN**

**16:45 – 17:00 A VISUALISATION PROBLEM ON LEARNING RELATIONSHIP BETWEEN FOCAL LENGHT AND RADIUS OF SPHERICAL MIRRORS
Ramazan ÇEKEN**

17:00 – 17:15 Coffee Break

17:15 – 17:30 Chair: Abdullah AYDIN

**17:15 – 17:30 USING THE KNOWLEDGE OF PENUMBRA WITH A TRICK SIMULATION
Mustafa SAHIN BULBUL, L. K. WEE**

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY CAHIT ARF LECTURE HALL

HALL – 4

CONDENSED MATTER and STATISTICAL PHYSICS (06)

- 15:45 – 17:00 Chair: Oğuz GÜLSEREN
- 15:45 – 16:00 INVESTIGATION OF STRUCTURAL AND ELECTRICAL PROPERTIES OF $\text{Cu}_2\text{ZnSnSe}_4$ THIN FILMS DEPOSITED BY THERMAL AND E-BEAM EVAPORATION
Duygu TAKANOĞLU, O. KARABULUT, K. YILMAZ, Y. ÖZCAN
- 16:00 – 16:15 ELECTRONIC PROPERTIES OF CORE/SHELL/WELL/SHELL QUANTUM DOT WITH PARABOLIC CONFINEMENT: THE EFFECTS OF HYDROGENIC IMPURITY, HYDROSTATIC PRESSURE AND TEMPERATURE
Sami ORTAKAYA, M. KIRAK
- 16:15 – 16:30 ACCURATE CALCULATIONS OF HEAT CAPACITIES OF PURE METALS USING EINSTEIN- DEBYE APPROXIMATION
Tural MEHMETOĞLU, Z. DOĞAN
- 16:30 – 16:45 DETERMINING THE FILM THICKNESSES OF DBR STRUCTURES
Aliye Alev KIZILBULUT, E. SENADIM TUZEMEN, S. ELAGOZ
- 16:45 – 17:00 SYNTHESIS AND STRUCTURAL ORIGINS OF PINK LIGHT EMISSION IN ULTRA-SMALL GOLD NANOPARTICLES
Osman ERSOY, YUANPENG ZHANG, ALI KARATUTLU, NADEZDA TARAKINA, HUANQING YE, ANDREI SAPELKIN
- 17:00 – 17:15 Coffee Break
- 17:15 – 19:00 Chair: Pınar BAŞER
- 17:15 – 17:30 INVESTIGATION OF NEMATIC-ISOTROPIC PHASE TRANSITION WITHIN FRACTIONAL CALCULUS
Müjde DURUKAN GULTEPE, O. KAYACAN, H.ERTİK
- 17:30 – 17:45 CALCULATION OF THE LOW FIELD MOBILITY OF BILAYER GRAPHENE WITH MONTE CARLO METHOD
Öznur ATASEVER, M. D. ÖZDEMİR, B. ÖZDEMİR, Z. YARAR, M. ÖZDEMİR
- 17:45 – 18:00 MAGNETIC BEHAVIOURS AND RKKY EXCHANGE INTERACTIONS IN TRANSITION METAL DOPED ZnO MATERIALS
Muhammet ARUCU, T. OSTLER, R. F. L. EVANS, R. W. CHANTRELL, S. AKTAS
- 18:00 – 18:15 GROWTH STUDIES OF LATTICE MATCHED GAINAS AND ALINAS LAYERS FOR QUANTUM CASCADE LASER BY MOCVD
ISMAİL ALTUNTAS, B. BULUT, I.DEMİR, S. ELAGOZ
- 18:15 – 18:30 RESEARCH FOR OPTIMIZING GROWTH CONDITIONS OF GALLIUM NITRIDE EPILAYERS FOR BLUE LED STURCTURES GROWN BY MOCVD

Behçet Özgür ALAYDİN, A.A.KIZILBULUT, İ. ALTUNTAŞ, B. BULUT, M. YALÇINKAYA, S. ELAGÖZ

18:30 – 18:45 THE EFFECT OF DEPOSITION PARAMETERS ON Ni/Cu MULTILAYER THIN FILMS
Salih COLMEKCI, A. KARPUZ, H. KOÇKAR

18:45 – 19:00 PERPENDICULAR MAGNETIC ANISOTROPY OF CO/NI MULTILAYERS WITH DIFFERENT NI DEPOSITION TECHNIQUES
Salih AKBULUT, A. AKBULUT and F. YILDIZ

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY FEZA GURSEY LECTURE HALL

HALL – 5

APPLIED PHYSICS (15)

- 15:45 – 17:00 Chair: Kemal ULUTAŞ
- 15:45 – 16:00 DIELECTRIC PROPERTIES OF PLASMA POLYMERIZED POLYETHYLENE OXIDE (PEO) THIN FILMS AT DIFFERENT PLASMA DISCHARGE CONDITIONS
Şahin YAKUT, D. DEĞER ULUTAŞ, H. K. ULUTAŞ, I. MELNICHUK, A. CHOUKOUROV, H. BIEDERMAN
- 16:00 – 16:15 STRUCTURE AND DIELECTRIC PROPERTIES OF OLEIC ACID COATED CoFe₂O₄ NANOPARTICLES
Ezgi ÖZTÜRK YILMAZ, T. GÜRKAYNAK ALTINÇEKİÇ, D.EĞER ULUTAŞ, M. AÇIKGÖZ, K.ULUTAŞ1, Ş. YAKUT
- 16:15 – 16:30 DIELECTRIC PROPERTIES OF SILICA AEROGEL/GLASS FIBER REINFORCED POLYESTER COMPOSITES
Deniz BOZOĞLU, D.DEĞER, H.DELİGÖZ, K.ULUTAŞ
- 16:30 – 16:45 DIELECTRIC PROPERTIES OF BITUMEN MATERIALS
Tugce KARA, B. DEGER, M. SINAN YARDIM, K. ULUTAS, D. DEGER ULUTAS, S. YAKUT, D. BOZOGLU, C. DEMIRTAS
- 16:45 – 17:00 AC CONDUCTIVITY OF BITUMEN MATERIALS
Cagdas DEMIRTAS, B. DEGER, M. S. YARDIM, T. KARA, D. BOZOGLU, K. ULUTAS, D. DEGER ULUTAS, S. YAKUT
- 17:00 – 17:15 Coffee Break
- 17:15 – 18:45 Chair: Nevin KALKAN
- 17:15 – 17:30 TRITIUM CONCENTRATIONS IN FIRTINA AND HEMSIN RIVER WATERS IN RIZE, TURKEY
Çiğdem FINDIKLI KAĞANOĞLU, S. DİZMAN, N. İPEK, R. KESER
- 17:30 – 17:45 TRITIUM ANALYSIS IN SEA WATER SAMPLES ALONG THE COASTLINE OF RIZE
Neslihan İPEK, Ç. FINDIKLI KAĞANOĞLU, S. DİZMAN, R. KESER
- 17:45 – 18:00 SUBSTITUTION COBALT ATOM IN MNB ALLOY AND EFFECT OF NANOSIZE MNBCO PARTICLES ON MAGNETIC PROPERTIES
Çağkan PIYAN, T. ŞİMŞEK, M. B. KAYNAR, Ş. ÖZCAN
- 18:00 – 18:15 PRODUCTION OF SILICA THIN FILM BY USING SOL-GEL METHOD PRODUCED FROM TEOS
Cumhur YILDIRIM, N. TUNA, N. BAYDOGAN, M. BAYDOGAN
- 18:15 – 18:30 SURFACE MODIFICATION OF SILICA AEROGELS
Cumhur YILDIRIM, N. TUNA, N. BAYDOGAN, M. BAYDOGAN
- 18:30 – 18:45 CHARACTERIZATION OF HIGH PERFORMANCE RANDOMLY SEGMENTED POLY(URETHANE SILOXANE) AND POLY(IMIDE SILOXANE) BLOCK COPOLYMERS
Türkan DOGAN, N. BAYDOGAN, N.KOKEN

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY SEVKET ERK LECTURE HALL

HALL – 6

NUCLEAR PHYSICS and NUCLEAR ENERGY (01)

- 15:45 – 17:00 Chair: Fatos YLLI
- 15:45 – 16:00 ELECTRON AND GAMMA RAY BEAM DUMP DESIGNS FOR THE GAMMA BEAM DELIVERY SYSTEM AT ELI-NP
Zafar YASİN, C. MATEI, C. A. UR, I-O. MITU, E. UDUP, C. PETCU, D. BALABANSKI
- 16:00 – 16:15 DEVELOPMENT OF AN EXTERNAL ION BEAM ANALYSIS SETUP AT THE IFIN-HH 3MV TANDETRON TM
Mihai STRATICIUC, V. A. RUNCEANU, D. G. PACESILA, I. BURDUCEA, D. G. GHITA
- 16:15 – 16:30 SPIN-1 SPINORS IN CLIFFORD ALGEBRA (1,3)
Murat AN
- 16:30 – 16:45 THICKNESS EVALUATION OF BFO THIN FILMS USING DIFFERENT TECHNIQUES
Ion BURDUCEA, M. STRATICIUC, M. GARTNER, V. FRUTH
- 16:45 – 17:00 HIGH RESOLUTION STUDY OF $TZ=3 \rightarrow 2$ GAMOW TELLER TRANSITIONS IN THE $50\text{Ti}(3\text{He},t)50\text{V}$ REACTION
Gulfem SUSOY, Y. FUJITA, H. FUJITA, T. ADACHI, A. ALGORA, M. CSATLÓ, J. M. DEAVEN, M. DOGAN, E. ESTEVEZ-AGUADO, E. GANIOGLU, C.J. GUESS, J. GULYÁS, K. HATANAKA, K. HIROTA, D. ISHIKAWA, A. KRASZNAHORKAY, H. MATSUBARA, R. MEHARCHAND, F. MOLINA, H. OKAMURA, Y. OKTEM, H. J. ONG, G. PERDIKAKIS, B. RUBIO, C. SCHOLL, Y. SHIMBARA, T. SUZUKI, A. TAMII, J. H. THIES, R. G. T. ZEGERS, J. ZENIHIRO
- 17:00 – 17:15 Coffee Break
- 17:15 – 19:15 Chair: Tomohiro UESAKA
- 17:15 – 17:30 GAMOW-TELLER TRANSITIONS IN THE $46\text{Ti}(3\text{He}, t)46\text{V}$ REACTION
Merve DOGAN, H.FUJITA, Y.FUJITA, E.GANIOGLU, T.ADACHI, A.NEGRET, A.TAMII, A.F.LISETSKY, C.FRANSEN, D. De FRENNE, E.JACOPS, G. P. A.BERG, G. SUSOY, J. KAMIYA, K.FUJITA, K.HATANAKA, K.KAWASE, K.NAKANISHI, K.O.ZELL, L.POPESCU, M.HONMA, M.YOSOI, M.UCHIDA, N.PIETRALLA, P.VON BRENTANO, T. MIZUSAKI, T. OTSUKA, T. WAKASA, Y.SAKEMI, Y. SHIMBARA, Y. SHIMIZU, Y. TAMESHIGE
- 17:30 – 17:45 INVESTIGATION OF THE ORBITAL ELECTRON-CAPTURE DECAY OF HYDROGEN-LIKE $142\text{Pm}60+$ IONS AT THE EXPERIMENTAL STORAGE RING (ESR)
Fatma Çağla OZTURK, F. BOSCH, Y. A. LITVINOV, Y. OKTEM, S. SANJARI, N. WINCKLER, TWO-BODY WEAK-DECAY COLLABORATION
- 17:45 – 18:00 PROPOSED PROTON ACCELERATOR FACILITY IN FRAME OF TURKISH ACCELERATOR CENTER PROJECT
Ayşegül ERTOPRAK, B. AKKUS, L. SAHIN, E. ALGIN
- 18:00 – 18:15 STUDY OF RADON EXHALATION RATE IN THE SOIL SAMPLES FROM SOME DISTRICTS OF BURSA, TURKEY USING SOLID-STATE NUCLEAR TRACK DETECTORS

Seval KASAPÖĐLU, H.YAKUT, E. TABAR

**18:15 – 18:30 A PROTOTYPE FOR THE ON-LINE ELEMENT ANALYSIS USING NUCLEAR TECHNIQUES
Y. NERGİS ANGIN, B. UNTUÇ, İ. A. REYHANCAN**

**18:30 – 18:45 THE DESIGN OF THE ELECTRON BEAM DUMP AND THE SHIELDING UNIT FOR TURKISH
ACCELERATOR CENTER (TAC)
Latif Hasan CİTE, M. YILMAZ**

**18:45 – 19:00 SIPPING TEST FOR THE IRRADIATED NUCLEAR FUEL ELEMENTS
Özgür AYTAN**

**19:00 – 19:15 DETERMINATION OF INDOOR RADON CONCENTRATIONS AT THE ELEMENTARY SCHOOLS
OF FATİH DISTRICT IN İSTANBUL
Aziz KURT, L. SAHİN YALCIN, Y. OKTEM, B. AKKUS, E. BOZKURT, N. HAFİZOĐLU, F. C.
OZTURK**

27 AUGUST 2015, THURSDAY

ISTANBUL UNIVERSITY SCIENCE FACULTY AHMET Y. OZEMRE LECTURE HALL

HALL -7

APPLIED PHYSICS (15)

- 15:45 – 17:00 Chair: Panos ARGYRAKIS
- 15:45 – 16:00 SCALE INDEX METHOD IN SEISMIC WAVES
Nazmi YILMAZ, M. AKILLI, K. G. AKDENİZ
- 16:00 – 16:15 THE EXPERIMENTAL DETERMINATION OF INTERFACIAL ENERGIES FOR SOLID SN IN EQUILIBRIUM WITH Sn-Mg-Zn LIQUID
Esra ÖZTÜRK, Y. ALTINTAS, S. AKSÖZ, K. KEŞLIOĞLU, N. MARAŞLI
- 16:15 – 16:30 NEW TREATMENT METHODS IN RADIONUCLIDE THERAPY
Ahu ÖZKAN, M. O. DEMİRKOL, Y.YARAR
- 16:30 – 16:45 GRAPHENE-BASED RADIATION DETECTOR
Merve EREN, H. ÇETİN
- 16:45 – 17:00 DEPENDENCE OF MICROSTRUCTURAL, MECHANICAL AND ELECTRICAL PROPERTIES ON GROWTH RATES IN THE DIRECTIONAL SOLIDIFIED Zn-Al-Bi EUTECTIC ALLOY
Ümit BAYRAM, Y. KARAMAZI, P. ATA, S. AKSÖZ, K. KEŞLIOĞLU, N. MARAŞLI
- 17:00 – 17:15 Coffee Break
- 17:15 – 18:45 Chair: Mücella ÖZBAY KARAKUŞ
- 17:15 – 17:30 STUDIES OF OPTICAL AND THERMO-OPTICAL PROPERTIES OF H-70 BY POLYTHERMIC REFRACTOMETRY TECHNIQUE
Atilla Eren MAMUK, P. ÖZDEN, A. NESRULLAZADE (NESRULLAJEV)
- 17:30 – 17:45 MAGNETIC PROPERTIES OF NEODYMIUM AND GADOLINIUM DOPED BARIUM-FERRITE NANOSTRUCTURES
Mehmet Burak KAYNAR, ŞADAN ÖZCAN, S. ISMAT SHAH
- 17:45 – 18:00 HIGH SURFACE AREA COATING FOR WATER CONDENSETION SYSTEMS
Mehmet Burak KAYNAR, S. ISMAT SHAH
- 18:00 – 18:15 EFFECT OF NI DIFFUSION ANNEILING TEMPERATURE ON CRUCIAL CHARACTERIZATION OF BI-2223 SUPERCONDUCTING SYSTEM
Mehmet Fatih KAHRAMAN, N.K. SARITEKIN, H. BILGE, M. DOGRUER, M. PAKDIL, Y. ZALAOGLU, G. YILDIRIM
- 18:15 – 18:30 EXAMINATION OF STRUCTURAL, OPTICAL, ELECTRONIC, ELASTIC PROPERTIES OF B1-x-y In_xAl_xN ALLOYS DEPEND ON VEGARDS LAW IN X- RAY MACHINE AND AB-INITIO METHOD
Ali GÜLTEKİN, Y. BAŞ,M. TAMER, M.K. ÖZTÜRK
- 18:30 – 18:45 THE EFFECT of HEAT TREATMENT on TENSILE STRENGTH in Al-Zn-Mg ALLOY
Harun EROL E. ACER, M. GÜNDÜZ

27 AUGUST 2015, THURSDAY
ISTANBUL UNIVERSITY SCIENCE FACULTY LECTURE HALL 1
HALL –8
COMPUTATIONAL PHYSICS (10)

15:45 – 17:00 Chair: Ali Azmi ALTINTAŞ

15:45 – 16:00 MAGNETIC ORDERING IN PROTOTYPICAL QUASI-ONE-DIMENSIONAL AND THREE-DIMENSIONAL MOLECULAR MAGNETS – A COMPUTATIONAL APPROACH
Mihai A. GÎRTU, C. I. OPREA, B. FRECUS, F. CIMPOESU, M. FERBINTEANU

16:00 – 16:15 THE THERMO-ELASTIC, MECHANIC AND ELECTRONIC PROPERTIES OF Lu_{1-X}WXB₁₂ (X=0.1 ~ 0.9) COMPOUNDS
Gökhan SURUCU, C. KADEROGLU

16:15 – 16:30 SIMULATION STUDIES ON BEAM DIAGNOSTIC FOR TAC – TARLA FACILITY
Ayhan AYDIN, Ç.KAYA, A.AKSOY, E.KASAP

16:30 – 16:45 CELL CYCLE BASED GENE REGULATION DYNAMICS OF AN EUKARYOTE MODEL ORGANISM
Emir HALIKI, N. KAZANCI, N. KESKIN

16:45 – 17:00 COMPUTATION OF ENERGY STATES OF HYDROGENIC QUANTUM DOT WITH TWO-ELECTRON
Yusuf YAKAR, A. ÖZMEN, B. ÇAKIR

17:00 – 17:15 Coffee Break

17:15 – 18:00 Chair: Mihai GIRTU

17:15 – 17:30 THE MECHANICAL PROPERTIES of CaGa₂P₂ and CaGa₂As₂
Engin DELİGÖZ, H. B. OZISIK, H. OZISIK

17:30 – 17:45 THE ELASTIC AND ELECTRONIC PROPERTIES OF CeZnSn AND CeZnSn_{1.5} COMPOUNDS
Havva B. OZISIK, E. DELIGOZ, E. ATEŞER

17:45 – 18:00 THEORETICAL INVESTIGATION ON Sc₂B₃ COMPOUND
Hacı ÖZİŞİK, E. DELİGÖZ, E. ATEŞER