



*9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey*

Oral Presentations

SISECAM Session

- S_OP1 XPS DEPTH PROFILING OF ARCHITECTURAL MULTI-LAYER COATINGS ON GLASS**
Özgür BIRER, S. TURKUZ
- S_OP2 OPTICAL CHARACTERIZATION OF SPUTTER DEPOSITED MULTI-LAYERED THIN FILMS BY SPECTROSCOPIC ELLIPSOMETRY**
Selen ERKAN
- S_OP3 CORPORATE RESEARCH AND TECHNOLOGICAL DEVELOPMENT AT ŞİŞECAM**
Şener OKTIK
- S_OP4 ELECTROCHROMIC PROPERTIES OF TUNGSTEN TRIOXIDE (WO₃) LAYERS GROWN ON ITO/GLASS SUBSTRATES BY MAGNETRON SPUTTERING**
Öcal TUNA, A. SEZGİN, R.BUDAKOĞLU, S. TÜRKÜZ
- S_OP5 GLASS PROCESSING BY USING FEMTOSECOND LASER**
Seydi YAVAŞ, T. YILDIZ, D. ARIBURNU, C. TOL, M. E. YAĞCI
- S_OP6 IDENTIFICATION OF GAS BUBBLES IN GLASS PRODUCTS BY MICRO RAMAN SPECTROSCOPY**
Hande YURDATAPAN, A. ÖZEL, E. AKALIN, M. ORAN, A. ÖTKEN



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

Nuclear Physics And Nuclear Energy (01)

- 01_OP1** SPIN-1 SPINORS IN CLIFFORD ALGEBRA (1,3)
Murat AN
- 01_OP2** A PROTOTYPE FOR THE ON-LINE ELEMENT ANALYSIS USING NUCLEAR TECHNIQUES
Y. NERGİS ANGIN, B. UNTUÇ, İ. A. REYHANCAN
- 01_OP3** SIPPING TEST FOR THE IRRADIATED NUCLEAR FUEL ELEMENTS
Özgür AYTAN
- 01_OP4** B^0 AND B_S^0 DECAYS INTO J/ψ PLUS A SCALAR OR VECTOR MESON
Melahat BAYAR, W.H. LIANG, E. OSET
- 01_OP5** THICKNESS EVALUATION OF BFO THIN FILMS USING DIFFERENT TECHNIQUES
Ion BURDUCEA, M. STRATICIUC, M. GARTNER, V. FRUTH
- 01_OP6** ENHANCED PROTON-NEUTRON INTERACTIONS IN HEAVY NUCLEI
R.Burcu CAKIRLI, D. BONATSOS, S. KARAMPAGIA, R.F. CASTEN, K. BLAUM, L. AMON SUSAM
- 01_OP7** THE DESIGN OF THE ELECTRON BEAM DUMP AND THE SHIELDING UNIT FOR TURKISH ACCELERATOR CENTER (TAC)
Latif Hasan CİTE, M. YILMAZ
- 01_OP8** IMPLEMENTATION OF IMRT AND VMAT USING DELTA4 PHANTOM AND PORTAL DOSIMETRY AS DOSIMETRY VERIFICATION TOOLS
Lulzime DACI, K.FRIDSTROM, I.BILBERG
- 01_OP9** 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
- 01_OP10** GAMOW-TELLER TRANSITIONS IN THE 46Ti (3He , t) 46V REACTION
Merve DOĞAN, H.FUJITA, Y.FUJITA, E.GANIOGLU, T.ADACHI, A.NEGRET, A.TAMİL, A.F.LISETSKY, C.FRANSEN, D. De FRENNE, E.JACOBS, 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
- 01_OP11** THE USE OF THE PAIRING - QUADRUPOLE CONNECTIONS IN PQM FOR APPLICATION IN NUCLEAR SYSTEMS
Kalin P. DRUMEV, A.I. GEORGIEVA
- 01_OP12** MEASUREMENT OF RATIOS OF AUGER ELECTRONS EMISSION PROBABILITIES AND K-L SHELL VACANCY TRANSFER PROBABILITY FOR BARIUM COMPOUNDS



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

Burhanettin Göker DURDU, E. AKKUTLU, A. KUCUKONDER

01_OP13 PROPOSED PROTON ACCELERATOR FACILITY IN FRAME OF TURKISH ACCELERATOR CENTER PROJECT

A. ERTOprak, B. AKKUS, L. SAHIN, E. ALGIN

01_OP14 APPLICATIONS OF ALGEBRAIC MODEL IN NUCLEAR STRUCTURE

Viladimir P. GARISTOV, A. GEORGIEVA, A. SOLNYSHKIN

01_OP15 CONNECTIONS BETWEEN THE DYNAMICAL SYMMETRIES IN THE MICROSCOPIC SHELL MODEL

Ana I. GEORGIEVA, K.P. DRUMEV

01_OP16 RADIATIVE DECAYS AT LHCb

Lavinia-Elena GIUBEGA

01_OP17 SPECIAL SOLUTIONS OF THE BOHR HAMILTONIAN FOR SHAPE PHASE TRANSITIONS USING NIKIFOROV-UVAROV METHOD

Melek GOKBULUT, I. YIGITOGU

01_OP18 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

01_OP19 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

01_OP20 DETERMINATION OF RADON CONCENTRATION AT YAHYA KAPTAN DISTRICT IN KOCAELI

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

01_OP21 STUDY OF RADON EXHALATION RATE IN THE SOIL SAMPLES FROM SOME DISTRICTS OF BURSA, TURKEY USING SOLID-STATE NUCLEAR TRACK DETECTORS

Seval KASAPÖĞLU, H. YAKUT, E. TABAR

01_OP22 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

01_OP23 ESTIMATION OF NEUTRON SPECTRUM IN THE LOW-LEVEL GAMMA SPECTROSCOPY SYSTEM USING UNFOLDING PROCEDURE

David KNEŽEVIĆ, N. JOVANČEVIĆ, M. KRMAR

01_OP24 CALCULATION OF THE NEUTRON DIFFUSION EQUATION BY USING HOMOTOPY PERTURBATION METHOD

Halide KOKLU, A. ERSOY, M. C. GULECYUZ, O. OZER

01_OP25 DETERMINATION OF INDOOR RADON CONCENTRATIONS AT THE ELEMENTARY SCHOOLS OF FATİH DISTRICT IN İSTANBUL

Aziz KURT, L. SAHIN YALCIN, Y. OKTEM, B. AKKUS, E. BOZKURT, N. HAFIZOGLU, F. C. OZTURK

01_OP26 RADON EXHALATION RATES AND EFFECTIVE RADIUM CONTENTS OF



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

THE SOIL SAMPLES IN ADAPAZARI, TURKEY

Adem KUŞ, H.YAKUT, E. TABAR

01_OP27 ELECTRON SCREENING EFFECT IN DEUTERON-DEUTERON FUSION REACTIONS AT EXTREMELY LOW ENERGIES IN METALLIC ENVIRONMENTS

Fadime KUŞTAN-KILIÇ, A. İ. KILIÇ, K. CZERSKI, D. WEISSBACH, A. HUKÉ, G. RUPRECHT, M. KACZMARSKI, N. TARGOSZ-SLECZKA

01_OP28 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

01_OP29 INVESTIGATION OF THE SCATTERING PROBLEM BASED ON THE NUCLEON-NUCLEON INTERACTION

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

01_OP30 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

01_OP31 INVESTIGATION OF THE ORBITAL ELECTRON-CAPTURE DECAY OF HYDROGEN-LIKE ¹⁴²Pm⁶⁰⁺ 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

01_OP32 SPIN DISTRIBUTION OF BINARY DECAY PRODUCTS

Horia PAŞCA

01_OP33 THE DEFORMATION DEPENDENT MASS MODEL OF NUCLEAR STRUCTURE

Dimitrios PETRELLIS

01_OP34 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

01_OP35 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

01_OP36 STUDY OF DEUTERON INDUCED CROSS SECTION OF SOME STRUCTURAL FUSION MATERIAL

Tarik SİDDİK

01_OP37 DEVELOPMENT OF AN EXTERNAL ION BEAM ANALYSIS SETUP AT THE IFIN-HH 3MV TANDETRONTM

Mihai STRATICIUC, V. A. RUNCEANU, D. G. PACESILA, I. BURDUCEA, D. G. GHITA

01_OP38 HIGH RESOLUTION STUDY OF T_Z=3→2 GAMOW TELLER TRANSITIONS



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

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. GULYAS, 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. TAMIL, J. H. THIES, R. G. T. ZEGERS, J. ZENIHIRO

01_OP39 INDOOR RADON MEASUREMENTS IN MUŞ, TURKEY WITH CR-39 DETECTORS

Özlem ULUSOY, N. EKİNCİ, E. SENEMTAŞI ÜNAL, E. KAVAZ, E. CINAN

01_OP40 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



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Astronomy And Astrophysics (02)

- 02_OP1 PERIOD CHANGES IN TWO CONTACT BINARIES: V700 CYG AND PY LYR**
Ahmet BULUT, İ. BULUT, C. ÇİÇEK, A. ERDEM
- 02_OP2 APSIDAL MOTION IN THE ECLIPSING BINARIES: FT ORI AND MZ LAC**
Ahmet BULUT, İ. BULUT, C. ÇİÇEK, A. ERDEM
- 02_OP3 SOLAR AND LUNAR CALENDARS OF THE MOUNTAIN SANCTUARY KOKINO**
Olgica KUZMANOVSKA
- 02_OP4 MULTI-LEVEL LINE TRANSFER USING THE FBILI METHOD**
Olgica KUZMANOVSKA, O. ATANACKOVIC
- 02_OP5 PHOTOMETRIC STUDY OF THE ECLIPSING BINARY ET PSC**
Gökçe Zeynep ÖZALP, B. ÖZKARDEŞ
- 02_OP6 THE FIRST SPECTROSCOPIC STUDY OF SOUTHERN BINARY: HD 53570**
Derya SÜRGİT
- 02_OP7 APSIDAL MOTION IN ECCENTRIC ECLIPSING BINARY GG ORION**
Erkan YILAN, İ. BULUT
- 02_OP8 INVESTIGATION OF ORBITAL PERIOD CHANGES OF SELECTED CONTACT BINARIES**
Muhammed Faruk YILDIRIM, F.SOYDUGAN



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Gravitation and Cosmology (03)

- 03_OP1 DAMPED OSCILLATING DARK ENERGY: IDEAL FLUID AND SCALAR TENSOR DESCRIPTION**
Nilay BOSTAN, E. AYDINER
- 03_OP2 ON THE VIABLE MODELS OF F(R) GRAVITY**
Diyadin CAN
- 03_OP3 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
- 03_OP4 IMPACT OF THE RADION ON THE TACHYON INFLATION**
Goran S. DJORDJEVIC, N. BILIC, D.D. DIMITRIJEVIC, M. MILOSEVIC
- 03_OP5 ON THE STATIC WEYL TYPE SOLUTIONS OF THE BRANS-DICKE THEORY**
Pınar KİREZLİ, Ö. DELİCE
- 03_OP6 SPECTROSCOPY OF ROTATING LINEAR DILATON BLACK HOLES FROM BOXED QUASINORMAL MODES**
Izzet SAKALLI
- 03_OP7 CLASSICAL DUAL THEORIES FOR THREE-DIMENSIONAL GRAVITY AS GEOMETRICAL ACTIONS ON COADJOINT ORBITS**
Patricio SALGADO-REBOLLEDO
- 03_OP8 HIGHER DIMENSIONAL STRANGE QUARK MATTER SOLUTIONS IN SELF CREATION COSMOLOGY**
Ramazan ŞEN, S. AYGÜN
- 03_OP9 ON THE BREAKDOWN OF THE CURVATURE PERTURBATION ζ DURING REHEATING**
Merve TARMAN ALGAN



*9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey*

Atomic and Molecular Physics (04)

- 04_OP1** **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
- 04_OP2** **TRANSITION PROBABILITIES OF NEUTRAL ANTIMONY**
Betül ATALAY, G. CELİK, I. KANAT OZTURK
- 04_OP3** **ALLOWED AND FORBIDDEN TRANSITIONS OF SOME LI-LIKE IONS**
Betül ATALAY, G. CELİK, S. ATES
- 04_OP4** **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
- 04_OP5** **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
- 04_OP6** **RADIATION PERMEABILITY OF SOME BUILDING MATERIALS, THE PRESENCE OF LINEAR ABSORPTION COEFFICIENTS AND MASS ABSORPTION COEFFICIENTS**
Şeyma BİBER TEMİRCİK, A. KÜÇÜKÖNDER
- 04_OP7** **RADIATION PERMEABILITY, LINEAR AND MASS ABSORPTION COEFFICIENTS OF SOME CERAMIC AND WOOD MATERIALS**
Şeyma BİBER TEMİRCİK, A. KÜÇÜKÖNDER
- 04_OP8** **DETERMINATION OF FREE RADICAL ON POLYCRYSTAL OF 4,4'-BIS(CHLOROACETYL)DIPHENYLETHER: AN ESR STUDY**
Yusuף CEYLAN, A. USTA, K. USTA, N. CEYLAN, F. DURMAZ, A. COŞKUN
- 04_OP9** **GAMMA RADIATION STERILIZATION FEASIBILITY OF SULFAMETHOXAZOLE DRUG RAW MATERIAL: AN ELECTRON SPIN RESONANCE (ESR) STUDY**
Şeyda ÇOLAK
- 04_OP10** **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
- 04_OP11** **THEORETICAL AND EXPERIMENTAL STUDIES OF THE MOLECULAR ORBITAL BONDING COEFFICIENTS FOR Cu²⁺ ION IN CESIUM HYDROGEN OXALATE SINGLE CRYSTALS**
Emel KALFAOĞLU, B. KARABULUT
- 04_OP12** **THEORETICAL INVESTIGATION OF THE EPR AND MOLECULAR**



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

ORBITAL COEFFICIENTS PARAMETERS FOR Cu²⁺ ION IN [Zn(sac)₂(en)₂] POWDER CRYSTALS

Emel KALFAOĞLU, B. KARABULUT

04_OP13 THEORETICAL ANALYSIS OF THE ELECTRON PARAMAGNETIC RESONANCE FOR Cu²⁺ ION IN [Zn(hydet-en)₂Pd(CN)₄] POWDER CRYSTALS

Emel KALFAOĞLU, B. KARABULUT

04_OP14 ESR DATING OF FOSSIL TOOTH ENAMEL

Ozgül KARATAS, E. ARAS, A. H. KARADAG

04_OP15 IDENTIFICATION OF THE ISOMERS USING PRINCIPAL COMPONENT ANALYSIS (PCA) METHOD

Abdullah KEPCEOĞLU, H.Ş. KILIÇ, Y. GÜNDOĞDU, K.W.D.LEDINGHAM

04_OP16 MOLECULAR DYNAMICS AT fs TIMESCALE

Constantine KOSMIDIS, CHR. PAPADOPOULOU, S. KAZIANNIS

04_OP17 NUMERICAL EVALUATION OF TWO-CENTER INTEGRALS OVER SLATER TYPE ORBITALS

Silay Aytaç KURT, S. AKDEMİR, E. ÖZTEKİN

04_OP18 APPLICATION OF THE SIZE-EXTENSIVITY CORRECTIONS APPROACHES TO THE LIMITED CONFIGURATION INTERACTION METHODS

Esra KUŞ, E. BOZDOĞAN, M. ERTÜRK, L. MEISSNER

04_OP19 EFFICIENCY OF IMPROVED EXPONENTIAL TYPE ORBITALS WITH DIFFERENT HYPERBOLIC COSINE FUNCTIONS

Erdem ÖZTÜRK, M. ERTÜRK

04_OP20 CHEMICAL EFFECTS ON K SHELL ABSORPTION JUMP FACTORS AND JUMP RATIOS OF 3D TRANSITION METALS COMPOUNDS

Emine Kübra SAKA, A. KÜÇÜKÖNDER

04_OP21 EVALUATION OF DETECTION LIMITS WITH WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY

Ebru SENEMTAŞI ÜNAL, N. EKİNCİ, Ö. ULUSOY

04_OP22 CALCULATION OF SECOND VIRIAL COEFFICIENT USING STOCKMAYER POTENTIAL FOR MOLECULES CH₃OH, CCl₂F₂, CH₂F₂ AND CH₃OCH₃

Elif SOMUNCU, I. M. ASKEROV, B. A. MAMEDOV

04_OP23 CALCULATION OF THE ZERO-PRESSURE JOULE-THOMSON COEFFICIENT FOR SOME NON-POLAR MOLECULES

Elif SOMUNCU, B. A. MAMEDOV, M. CAN

04_OP24 TIME-OF-FLIGHT ANALYSIS OF HEMISPHERICAL DEFLECTION ANALYZERS

Omer SISE, T.J.M. ZOUROS

04_OP25 DETERMINATION OF K SHELL ABSORPTION JUMP FACTORS FOR As, Se, Sr, Mo, Ag, Ba, La and Ce COMPOUNDS

Hatice TOPUZ, A. KÜÇÜKÖNDER

04_OP26 SCREENING OF FREE RADICAL FORMATION IN CRYSTALS OF



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

GUANOSINE BY ESR STUDY

Ayhan USTA, Y. CEYLAN, K. USTA, B. ASIK, H. CINGILLI VURAL

04_OP27 IDENTIFICATION OF RADIATION-INDUCED RADICAL STRUCTURE IN AZOCALIX[4]ARENE: AN EPR STUDY

Keziban USTA, A. USTA, Y. CEYLAN, O.O. KARAKUS, H. DELIGOZ

04_OP28 STRUCTURAL, SPECTROSCOPIC AND MAGNETIC PROPERTIES OF [Cu(1-meim)₄]₂(PF₆)

İlkay YILDIRIM, B. KARABULUT

04_OP29 THEORETICAL AND EXPERIMENTAL EPR AND OPTICAL STUDIES OF [Cu(1-meim)₄(H₂O)]₂Cl₂·H₂O SINGLE CRYSTALS

İlkay YILDIRIM, Y. ÇELİK, B. KARABULUT

04_OP30 ATOMIC GAUSSIAN TYPE ORBITALS AND THEIR FOURIER TRANSFORMS VIA THE RAYLEIGH EXPANSION

Niyazi YÜKÇÜ

04_OP31 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. DOUKASI, E. P. BENIS

04_OP32 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

04_OP33 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



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

High Energy Physics (05)

- 05_OP1** **PARAMETRIZATION STUDY OF UHE UPWARD TAU NEUTRINO SHOWER**
Şeyma ATİK, N. ÖZDEMİR, A. YILMAZ, H. DENİZLİ, M. IORI
- 05_OP2** **UNTHINNING STRATEGY USED FOR THE ANALYSIS OF CORSIKA THIN OUTPUT**
Şeyma ATİK, N. ÖZDEMİR, A. YILMAZ, H. DENİZLİ, M. IORI
- 05_OP3** **A PREDICTION OF D*-MULTI-RHO STATES**
Melahat BAYAR, C.W. XIAO, E. OSET
- 05_OP4** **BEAM DYNAMIC SIMULATION AND OPTIMIZATION OF THE CLIC POSITRON SOURCE IN THE PRE-INJECTOR LINAC**
Cafer BAYAR, S.DOEBERT, A.K.CIFTCI
- 05_OP5** **DESIGN OF THE TRANSFER LINE FROM BOOSTER TO STORAGE RING AT 3 GeV**
Cafer BAYAR, A.K.CIFTCI
- 05_OP6** **INCLUSIVE JET CROSS SECTION AND STRONG COUPLING CONSTANT MEASUREMENTS AT CMS**
Salim CERCI (ON BEHALF OF THE CMS)
- 05_OP7** **GENERAL STRUCTURE OF DEMOCRATIC MASS MATRIX OF QUARK SECTOR IN E6 MODEL**
Rena CIFTCI, A.K. CIFTCI
- 05_OP8** **NANOMETER WAVELENGTH FREE ELECTRON LASER OPTIMISATION**
Esra DEMIRHAN, H. DURAN YILDIZ
- 05_OP9** **ρDD^- SYSTEM WITH THE FIXED CENTER APPROXIMATION TO THE FADDEEV EQUATION**
Beyza DURKAYA, M. BAYAR
- 05_OP10** **DESIGN OF 3 GeV BOOSTER RING LATTICE**
Özgür ETISKEN, A.K.CITCI
- 05_OP11** **DESIGN OF AN ALTERNATIVE DAMPING RING SYNCHROTRON FOR THE FCC – e+e-**
Özgür ETISKEN, Y. PAPAPHILIPPOU, A.K.CIFTCI
- 05_OP12** **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
- 05_OP13** **INVESTIGATION OF HEAVY-LIGHT TENSOR MESON**
Neşe Y. ÖZTONGA AND J. Y. SÜNGÜ
- 05_OP14** **STATUS AND PERSPECTIVES OF NEUTRINO PHYSICS AND DARK MATTER SEARCHES AT PRESENT AND FUTURE EXPERIMENTS**
Carmine E. PAGLIARONE



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

- 05_OP15 SUPERCONDUCTING AND NORMALCONDUCTING CAVITY SIMULATION COMPARISONS FOR GUN AND MAIN ACCELERATORS**
Dilaver PORSUK, H. DURAN YILDIZ
- 05_OP16 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
- 05_OP17 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
- 05_OP18 NEUTRALINO PAIR PRODUCTION IN PHOTON-PHOTON COLLIDER AT THE INTERNATIONAL LINERA COLLIDER**
Nasuf SÖNMEZ
- 05_OP19 THE IMPACT OF MONTE CARLO TUNING ON JET WIDTHS AND INCLUSIVE JET CROSS SECTION AT THE LHC**
Nasuf SÖNMEZ
- 05_OP20 FORWARD AND SMALL-X QCD PHYSICS RESULTS FROM CMS EXPERIMENT AT LHC**
Deniz SUNAR CERCI (ON BEHALF OF THE CMS)
- 05_OP21 PHOTOPRODUCTION OF KALUZA-KLEIN GRAVITONS AT THE LHC**
İnanç ŞAHİN
- 05_OP22 THIRRING NOISE MODEL**
Eren TOSYALI, F. AYDOGMUS
- 05_OP23 NON-LINEAR EFFECTS IN BUNCH COMPRESSOR OF TARLA**
Hüseyin YILDIZ, A. AKSOY, P. ARIKAN



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Condensed Matter Physics & Statistical Physics (o6)

- 06_OP1 PERPENDICULAR MAGNETIC ANISOTROPY OF CO/Ni MULTILAYERS WITH DIFFERENT Ni DEPOSITION TECHNIQUES**
Salih AKBULUT, A. AKBULUT and F. YILDIZ
- 06_OP2 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
- 06_OP3 RESEARCH FOR OPTIMIZING GROWTH CONDITIONS OF GALLIUM NITRIDE EPILAYERS FOR BLUE LED STRUCTURES GROWN BY MOCVD**
Behçet Özgür ALAYDİN, A.A.KIZILBULUT, İ. ALTUNTAŞ, B. BULUT, M. YALÇINKAYA, S. ELAGÖZ
- 06_OP4 +/-J MODEL ON THE BETHE LATTICE**
Erhan ALBAYRAK
- 06_OP5 ON QUANTUM ENTANGLEMENT AND QUANTUM INFORMATION**
Azmi Ali ALTINTAŞ
- 06_OP6 GROWTH STUDIES OF LATTICE MATCHED GaInAs AND AlInAs LAYERS FOR QUANTUM CASCADE LASER BY MOCVD**
Ismail ALTUNTAŞ, B. BULUT, İ.DEMİR, S. ELAGOZ
- 06_OP7 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
- 06_OP8 CALCULATION OF THE LOW FIELD MOBILITY OF BILAYER GRAPHENE WITH MONTE CARLO METHOD**
Öznur ATASEVER, M. D. ÖZDEMİR, B. ÖZDEMİR, Z. YARAR, M. ÖZDEMİR
- 06_OP9 HYDROGENIC-IMPURITY GROUND STATE IN GaAs / Ga_{1-x}In_xAs SINGLE QUANTUM WELL STRUCTURES**
Pınar BAŞER, İ. ALTUNTAŞ, S. ELAGOZ
- 06_OP10 ELECTRONIC PROPERTIES OF GaAs-(Ga,Al)AS QUANTUM WELL-WIRES: THE INFLUENCES OF AZIMUTHAL MAGNETIC AND LASER FIELDS**
Bahadır BEKAR, F.K. BOZ
- 06_OP11 ACOUSTIC PHONONS IN PLANAR Si/Ge/Si NANOSTRUCTURES**
Igor A. BOGUSH, D.I. NIKA
- 06_OP12 ELECTRO-TRANSPORT STUDIES OF SILVER-DOPED FeSe_{0.94} SUPERCONDUCTING SYSTEM**
Krastyo BUCHKOV, E. NAZAROVA, N. BALCHEV, D. GAJDA, K. NENKOV, A. ZAHARIEV
- 06_OP13 CRISTAL STRUCTURES, MAGNETIC AND TRANSPORT PROPERTIES OF**



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

CALCIUM BASED PEROVSKITES

Emil BURZO

06_OP14 INTRINSIC DEFECT DEPENDENT MAGNETO – ELECTRICAL ANALYSES OF ZNO AND (ZN,W)O THIN FILMS

Musa Mutlu CAN

06_OP15 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

06_OP16 (3-AMINOPROPYL)TRIETHOXYSILANE (APTES) COATED CUBIC MAGNETITE NANOPARTICLES FOR HYPERTHERMIA: PREPARATION AND CHARACTERIZATION

Mustafa COŞKUN, S. ÇİTOĞLU

06_OP17 THE EFFECT OF DEPOSITION PARAMETERS ON Ni/Cu MULTILAYER THIN FILMS

Salih COLMEKCI, A. KARPUZ, H. KOÇKAR

06_OP18 OPTICAL AND STRUCTURAL PROPERTIES OF AS-GROWN AND ANNEALED GABIAS EPILAYERS

Omer DONMEZ, K. KARA, A. EROL, H. MAKHLOUFI, A. ARNOULT, C. FONTAINE

06_OP19 INVESTIGATION OF NEMATIC-ISOTROPIC PHASE TRANSITION WITHIN FRACTIONAL CALCULUS

Müjde DURUKAN GULTEPE, O. KAYACAN, H.ERTİK

06_OP20 STRUCTURAL, MECHANICAL, AND ELECTRONIC PROPERTIES OF XAlB₄ (X=Li, Mg, Ca, and Na)

Şinasi ELLİALTIOĞLU, C.TAYRAN, S. AYDIN, M. ÇAKMAK

06_OP21 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

06_OP22 PHOTOLUMINESCENCE PROPERTIES OF BORON DOPED INDIUM SELENIT (INSE) SINGLE CRYSTALS

Hüseyin ERTAP, A. BACIOĞLU, M. KARABULUT

06_OP23 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

06_OP24 INVESTIGATION OF PHYSICAL PROPERTIES Y (YTTRIUM) - SUBSTITUTED BI-2212 SUPERCONDUCTOR

Hakan GÜNDOĞMUŞ

06_OP25 GRAPHENE BASED BIOSENSORS

Hikmet Hakan GÜREL, B. SALMANKURT



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

- 06_OP26** **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
- 06_OP27** **ELECTRONIC STRUCTURE OF CYLINDRICAL TOPOLOGICAL INSULATOR NANOTUBES AND NANOPORES**
Valeriu G. KANTSER, I.M. BEJENARI
- 06_OP28** **INTERFACE STATES IN TOPOLOGICAL INSULATOR HETEROSTRUCTURES DRIVEN BY POLARIZATION AND ANTIFERROMAGNETIC ORDERING**
Valeriu G. KANTSER, M. DRAGUTSAN
- 06_OP29** **DETERMINING THE FILM THICKNESSES OF DBR STRUCTURES**
Aliye Alev KIZILBULUT, E. SENADIM TUZEMEN, S. ELAGOZ
- 06_OP30** **HALL EFFECT IN THE SUPERCONDUCTING FERROMAGNET UCOGE**
Danica KRSTOVSKA, E. STEVEN, A. KISWANDHI, J.S. BROOKS
- 06_OP31** **EXCITONS IN A HEXAGONAL GRAPHENE-LIKE DONOR-ACCEPTOR LATTICE**
Ivan J. LALOV, I. ZHELYZKOV
- 06_OP32** **ACCURATE CALCULATIONS OF HEAT CAPACITIES OF PURE METALS USING EINSTEIN- DEBYE APPROXIMATION**
Tural MEHMETOGLU, Z. DOGAN
- 06_OP33** **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
- 06_OP34** **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
- 06_OP35** **A NEW METHOD TO STUDY NANOSTRUCTURED NEMATIC LIQUID CRYSTALS: FLEXO-DIELECTRO-OPTICAL SPECTROSCOPY**
Alexander G.PETROV, Y. MARINOV
- 06_OP36** **COMPLEXITY METHODS USED IN THE STUDY OF SOME REAL SYSTEMS WITH WEAK CHARACTERISTIC PROPERTIES**
Dode PRENGA, MARGARITA IFTI, JULIAN FEJZAJ
- 06_OP37** **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
- 06_OP38** **PRODUCTION AND CHARACTERIZATION OF PARTIALLY CRYSTALLINE Ni₂₃Zr₇₇ METALLIC GLASS**
Amra SALČINOVIĆ FETIĆ, S. SULEJMANOVIĆ



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

- 06_OP39** 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
- 06_OP40** GRAIN BOUNDARY RELATED ELECTRICAL TRANSPORT IN AL-RICH $\text{Al}_x\text{Ga}_{1-x}\text{N}$ LAYERS GROWN BY METAL-ORGANIC CHEMICAL VAPOR DEPOSITION
Mehmet TAMER, M. K. ÖZTÜRK, A. GÜLTEKİN, Y. BAŞ, S. ÖZÇELİK, E. ÖZBAY
- 06_OP41** MODIFICATION OF INDUCTION MELTED Al-5Cu ALLOY BY THE MINOR ADDITION OF Sc
Cengiz TEMİZ, F. YILMAZ, S. ERGEN, O. UZUN, U. KÖLEMEN
- 06_OP42** THE CHAOTIC BEHAVIOURS IN SHOCK WAVES
Eren TOSYALI, F. AYDOĞMUS
- 06_OP43** THERMODYNAMICAL and STRUCTURAL PROPERTIES OF SOME LIQUID TRANSITION METALS NEAR MELTING POINT
Sevilay UÇAR, S. KARTAL, T. ARMAĞAN
- 06_OP44** ELECTRICAL RESISTIVITY OF LIQUID TRANSITION METALS NEAR MELTING POINT
Sevilay UÇAR, S. KARTAL, T. ARMAĞAN
- 06_OP45** ANNEALING EFFECT ON STRUCTURAL AND OPTICAL PROPERTIES OF CHEMICAL BATH DEPOSITED MnS THIN FILM
Cemal ULUTAS, C. GUMUS
- 06_OP46** BOND ORBITAL MODELLING OF ELECTRONIC AND DIELECTRIC PROPERTIES OF HETEROSTRUCTURES
Hilmi ÜNLÜ
- 06_OP47** MODIFICATION of MELT-SPUN ALUMINIUM ALLOYS by SCANDIUM
Yeliz YILMAZ, F. YILMAZ, S. ERGEN, U. KÖLEMEN, O. UZUN
- 06_OP48** 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
- 06_OP49** PIPPARD RELATION CLOSE TO THE ALPHA- BETA TRANSITION FOR QUARTZ IN GRANITE
Hamit YURTSEVEN, A. GÜMÜS
- 06_OP50** ANALYSIS OF THE THERMAL EXPANSIVITY NEAR THE TRICRITICAL POINT IN DILUTE CHROMIUM ALLOYS
Hamit YURTSEVEN, Ö. TARI
- 06_OP51** ELECTRONIC PROPERTIES OF $\text{Tl}_{1-x}\text{In}_{1-x}\text{Sn}_x\text{Se}_2$ ($x=0, 0.25$) ALLOYS
İsmail YÜCEL, S. ÇAKMAK, E. ARTUNÇ, A. BABANLI



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Optics and Lasers (07)

- 07_OP1 THE CHANGES IN OPTICAL DENSITY OF ZRO₂ THIN FILM WITH THE RISE OF THE ABSORBED DOSE**
Defne ABAYLI, N. BAYDOGAN
- 07_OP2 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
- 07_OP3 A TUNABLE AUTOCORRELATOR FOR PULSE MEASUREMENTS IN TARLA IR-FEL FACILITY**
Ersin ÇİÇEK, P.ARIKAN, W. SEIDEL
- 07_OP4 LUMINESCENT PROPERTIES OF COPPER OR CROMIUM DOPED ZINC SELENIDE SINGLE CRYSTAL AND IMPROVED BY CODOPING WITH GADOLINIUM IMPURITY**
Evgheii P. GONCEARENCO
- 07_OP5 A NEW THIN FILM COATING SYSTEM AND SOME IMPORTANT APPLICATIONS**
Hamdi Şükür KILIÇ
- 07_OP6 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
- 07_OP7 AN IMPROVED METHOD FOR THE DETERMINATION OF BIREFRINGENCE DISPERSION OF LIQUID CRYSTAL CELL: A SIMULATION STUDY**
Seçkin ÖZCAN, E. COŞKUN, Ö. KOCAHAN, S. ÖZDER
- 07_OP8 OPTICAL ANTENNA DESIGN FOR ATMOSPHERIC COMMUNICATION SYSTEM**
Semih OZTURK, M.KURT
- 07_OP9 ULTRA-COLD EXTERNAL CAVITY DIODE LASER SYSTEM**
Barış POLAT, I. KUCUKKARA
- 07_OP10 EXTERNAL CAVITY DIODE LASER SYSTEM WITH TRANSMISSION GRATING**
Barış POLAT, I. KUCUKKARA
- 07_OP11 BESSEL BEAMS FOR MATERIAL PROCESSING**
Ramazan SAHIN



*9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey*

Plasma and Gas-Discharge Physics (o8)

- 08_OP1** **IMPROVEMENT OF THE HYBRID MODEL FOR GLOW DISCHARGE THROUGH INCORPORATION OF THE ELECTRON ENERGY BALANCE EQUATION**
Ender EYLENCEOĞLU, İ. RAFATOV, A. KUDRYAVTSEV
- 08_OP2** **PSEUDOSPARK SWITCH (PSS) CHARACTERISTICS UNDER DIFFERENT OPERATION CONDITIONS**
Ahmad K. AHMAD, KAMAL H. LATEEF, BASSMA H. HAMAD
- 08_OP3** **VALIDATION AND PARALLELIZATION OF THE PARTICLE IN CELL/MONTE CARLO COLLISION NUMERICAL CODE FOR THE RF DISCHARGE SIMULATIONS**
Cemre KUŞOĞLU SARIKAYA, İ. RAFATOV
- 08_OP4** **THE RESPONSE OF HIGH LATITUDE IONOSPHERE TO GEOMAGNETIC ACTIVITY CHANGES**
Erdinç TİMOÇİN, İ. ÜNAL, K. AKSAÇ



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Theoretical and Mathematical Physics (09)

- 09_OP1** **INFORMATION ENTROPY OF TWO-ELECTRON ATOMIC MODELS**
Ekrem AYDINER, D. G. DEVECI, S. D. HAN
- 09_OP2** **A NUMERICAL SCHEME BASED ON HAAR WAVELETS FOR COUPLED
NONLINEAR SCHRÖDINGER-KDV EQUATIONS**
Fatih BULUT, Ö. ORUÇ, A. ESEN
- 09_OP3** **DYNAMICS OF TACHYON FIELDS WITH INVERSE POWER POTENTIALS**
Goran S. DJORDJEVIC, D.D. DIMITRIJEVIC, M. MILOSEVIC, M. STOJANOVIC
- 09_OP4** **THE ANALYSIS OF QUANTUM QUTRIT ENTANGLEMENTS IN A QUTRIT
BASED HYPER-SPHERE IN TERMS OF GLUING AND COMBINING
OPERATORS**
Volkan DURAN
- 09_OP5** **THE ANALYSIS OF QUTRIT BASED QUANTUM COIN-FLIP GAMES IN
TERMS OF SOME QUTRIT BASED OPERATORS**
Volkan DURAN
- 09_OP6** **UNIFIED UNIQUE QUANTUM FIELD THEORY OF NATURE**
Israfil I. GUSEINOV
- 09_OP7** **THE SOLUTIONS AND THERMODYNAMIC DARK ENERGY IN THE
ACCELERATING UNIVERSE**
Emine Canan GÜNAY DEMİREL
- 09_OP8** **THE DARK ENERGY SOLUTIONS IN THE 5-DIMENSIONAL KALUZA
KLEIN SPACE-TIME**
Emine Canan. GÜNAY DEMİREL
- 09_OP9** **OSCILLATING CASIMIR FORCE OF TRAPPED SPINLESS BOSON
PARTICLES IN ELECTRICAL AND MAGNETIC FIELDS**
Seyit Deniz HAN, E. AYDINER
- 09_OP10** **APPLICATION OF A PARTICULAR CLASS OF INTEGRALS IN THE
THEORY OF DIFFRACTION**
Burim KAMISHI, R. BEJTULLAHU, H. SYKJA
- 09_OP11** **BREAKING THE FOURTH WALL: INTRODUCING THE INTERSTELLAR'S
PHYSICS**
F. Kamer KARAKUŞ
- 09_OP12** **EXTENSION OF NIKIFOROV-UVAROV METHOD FOR THE SOLUTION OF
HEUN EQUATION**
Hale KARAYER, D. DEMİRHAN, F. BUYUKKILIC
- 09_OP13** **PERTURBATION CALCULATIONS FOR A TRIGONOMETRIC POTENTIAL
VIA ASYMPTOTIC ITERATION METHOD (AIM)**
Hasan Fatih KISOGLU, H.CIFTCI
- 09_OP14** **ANALYTICAL SOLUTIONS OF N-DIMENSIONAL SCHRÖDINGER
EQUATION IN THE PRESENCE OF MAKAROV POTENTIAL**



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

A. ÖZFİDAN, A. DURMUŞ

09_OP15 GENERALIZED QUANTUM STATISTICS AND LIE (SUPER)ALGEBRAS

Nadialka I. STOILOVA

**09_OP16 SPHERICALLY SYMMETRIC ELECTROMAGNETIC FIELD AND
CHAPLYGIN GAS WITH CONFORMAL MOTION IN F(R) GRAVITY**

Doğukan TAŞER, M. ULU DOĞRU

**09_OP17 THE NEW QUANTUM-INFORMATION GEOMETRY PARADIGM IN
CONDENSED-MATTER PHYSICS**

Nikolay S. TONCHEV

**09_OP18 ON REGULARIZED TRACE OF DIFFERENTIAL OPERATOR OF SECOND
ORDER**

Duygu ÜÇÜNCÜ, E. GÜL



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Computational Physics (10)

- 10_OP1** **SIMULATION STUDIES ON BEAM DIAGNOSTIC FOR TAC – TARLA FACILITY**
Ayhan AYDIN, Ç.KAYA, A.AKSOY, E.KASAP
- 10_OP2** **THE MECHANICAL PROPERTIES of CaGa₂P₂ and CaGa₂As₂**
Engin DELİGÖZ, H. B. OZISIK, H. OZISIK
- 10_OP3** **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
- 10_OP4** **CELL CYCLE BASED GENE REGULATION DYNAMICS OF AN EUKARYOTE MODEL ORGANISM**
Emir HALIKI, N. KAZANCI, N. KESKIN
- 10_OP5** **THE ELASTIC AND ELECTRONIC PROPERTIES OF CeZnSn AND CeZnSnH_{1.5} COMPOUNDS**
Havva B. OZISIK, E. DELIGOZ, E. ATEŞER
- 10_OP6** **THEORETICAL INVESTIGATION ON Sc₂B₃ COMPOUND**
Hacı ÖZİŞİK, E. DELİGÖZ, E. ATEŞER
- 10_OP7** **THE THERMO-ELASTIC, MECHANIC AND ELECTRONIC PROPERTIES OF Lu_{1-X}W_XB₁₂ (X=0.1~0.9) COMPOUNDS**
Gökhan SURUCU, C. KADEROGLU
- 10_OP8** **COMPUTATION OF ENERGY STATES OF HYDROGENIC QUANTUM DOT WITH TWO-ELECTRON**
Yusuf YAKAR, A. ÖZMEN, B. ÇAKIR



*9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey*

Meteorology and Geophysics (11)

- 11_OP1 DAMAGING EFFECTS OF THE STRONG HISTORICAL AND MODERN EARTHQUAKES IN REPUBLIC OF MACEDONIA AND NEIGHBORING REGIONS**
Dragana ČERNIĀ-ANASTASOVSKA, V. ČEJKOVSKA, K. DROGREŠKA, J. NAJDOVSKA
- 11_OP2 QUALITY FACTOR ON THE TERRITORY OF THE REPUBLIC OF MACEDONIA**
Dragana ČERNIĀ-ANASTASOVSKA, V. ČEJKOVSKA
- 11_OP3 ESTIMATION OF LOAND SURFACE TEMPERATURE OF GELİBOLU PENINSULA USING LANDSAT 8 DATA**
Erkan YILAN, İ. BULUT, M. GÜRE
- 11_OP4 SURFACESPHERE–ATMOSPHERE–IONOSPHERE COUPLING MODEL FOR VRANCEA SEISMIC ZONE IN ROMANIA**
Maria ZORAN, R. SAVASTRU, D. SAVASTRU
- 11_OP5 ANOMALOUS RADON EMISSION AS PRECURSOR OF MEDIUM TO STRONG EARTHQUAKES**
Maria ZORAN



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Environmental Physics (12)

- 12_OP1** **EVALUATION OF THE POTENTIAL RADIATION EXPOSURE FROM RADIOACTIVE SCRAP METAL**
Sadik BEKTESHI, S. KABASHI, A. JANUZAJ, Z. TOLAJ
- 12_OP2** **COMPUTATIONAL STUDY CONCERNING THE EFFECTS OF HERBICIDES AND FUNGICIDES ON THE SOIL ENZYMATIC ACTIVITIES**
Adriana ISVORAN, D. L. VLĂDOIU, M. N. FILIMON, V. OSTAFE
- 12_OP3** **A MÖSSBAUER AND IR SPECTROSCOPIC STUDY OF CERIUM IRON BOROPHOSPHATE GLASSES**
Mevlüt KARABULUT, H. ERTAP, M. YÜKSEK
- 12_OP4** **DISTRUBUTION OF NATURAL RADIONUCLIDES IN SOILS AND BEACH SANDS OF ABANA-ÇATALZEYTİN (KASTAMONU)**
Murat ÖZCAN, A.KURNAZ, M.A. ÇETİNER
- 12_OP5** **REFERENCE LEVELS OF BACKGROUND RADIOACTIVITY FOR BEACH SANDS AND SOILS IN İNEBOLU/KASTAMONU-TURKEY**
Savaş TÜRKDOĞAN, A.KURNAZ, A. HANÇERLİOĞULLARI, M.A. ÇETİNER



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Alternative Source of Energy (13)

- 13_OP1 ESTIMATION OF WIND SPEED WITH ARTIFICIAL NEURAL NETWORK**
Muhammet Yusuf AKTAÇ , M.ŞAHİN
- 13_OP2 PHOTOVOLTAIC CELLS BASED ON BIOLOGIC/POLYMERIC THIN FILMS**
Stefan ANTOHE
- 13_OP3 DYNAMIC MODELING OF ELECTRICITY SUPPLY-DEMAND SYSTEM: A MATHEMATICAL APPROACH**
Sadik BEKTESHI, S. KABASHI, S. AHMETAJ, I. SLAUS, A. ZIDANSEK, K. PODRIMQAKU, S. KASTRATI
- 13_OP4 ESTIMATION OF SOLAR RADIATION WITH ARTIFICIAL NEURAL NETWORK USING SATELLITE DATA IN MEDITERRANEAN REGION**
Mehmet BOLAT, M.ŞAHİN
- 13_OP5 THE EFFECT OF MIXING RATIOS OF P3HT:PCBM ON THE PERFORMANS OF ORGANIG SOLAR CELLS**
Zakir ÇALDIRAN, Z. ORHAN, Ş.AYDOĞAN and M.BİBER
- 13_OP6 ELECTROCHEMICAL DEPOSITION OF CZTS THIN FILMS**
M.A. JAFAROV, E.F. NASIROV, S.A. JAHANGIROVA
- 13_OP7 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
- 13_OP8 SYNTHESIS AND CHARACTERIZATION OF GRAPHENE UNDOPED AND DOPED $\text{Ca}_{3-x}\text{Eu}_x\text{Co}_4\text{O}_{12}$ NANOCERAMICS WITH THERMOELECTRIC EFFECT**
Serhat KOÇYİĞİT, A. AYTİMUR, İ. USLU
- 13_OP9 A NEW NATURAL DYE SOURCE-PELARGONIUM FLOWERS FOR DYE-SENSITIZED SOLAR CELLS**
Mücella ÖZBAY KARAKUŞ, H. ÇETİN
- 13_OP10 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
- 13_OP11 COMPLEX IMPEDANCE ANALYSIS IN OXIDE SEMICONDUCTORS FOR SOLID OXIDE FUEL CELL**
Shalima SHAWUTI



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

Econophysics (14)

Applied Physics (15)

- 15_OP1** EFFECT of GROWTH RATES on PRIMARY DENDRITE ARM SPACING in DIRECTIONALLY SOLIDIFIED an Al-10wt.%Zn ALLOY
Emine ACER, H. EROL, M. GÜNDÜZ
- 15_OP2** THE TRANSITION OF WATER MOLECULE BEHAVIOUR FROM SUB-ATOMIC TO CLASSIC SCALE
Ender AKDOĞAN, M. ÇİFTÇİ
- 15_OP3** FABRICATION AND CHARACTERIZATION OF CUO THIN FILM / SI NANOWIRES HETEROJUNCTION PHOTODIODES
Funda AKSOY AKGUL, G. AKGUL, H. E. UNALAN, R. TURAN
- 15_OP4** THE EXPERIMENTAL DETERMINATION OF INTERFACIAL ENERGIES FOR SOLID CUAL₂ IN EQUILIBRIUM WITH AL-CU-SI LIQUID
Yemliha ALTINTAS, S. AKSÖZ, K. KEŞLİOĞLU, N. MARAŞLI
- 15_OP5** ION CONDUCTING THIN FILM LAYER STUDIES FOR THE PURPOSE OF CONSTRUCTING AN ALL-SOLID-STATE ELECTROCHROMIC DEVICE
Gamze ATAĞ, Ö. DUYAR COŞKUN
- 15_OP6** PREPARATION AND CHARACTERIZATION OF ZIRCONIA-GADOLINIA-NEODYMIA NANOCRYSTALLINE CERAMIC PIGMENTS
Arda AYTİMUR, S. KOÇYİĞİT, İ. USLU
- 15_OP7** 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. KEŞLİOĞLU, N. MARAŞLI
- 15_OP8** IMPROVEMENT OF MECHANICAL CHARACTERISTICS AND PERFORMANCES WITH NI DIFFUSION MECHANISM THROUGHOUT BI-2223 SUPERCONDUCTING MATRIX
Habibullah BILGE, N.K. SARITEKIN, M.F. KAHRAMAN, Y. ZALAOĞLU, M. PAKDİL, M. DOGRUER, G.YILDIRIM
- 15_OP9** 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. SZILÁGYI
- 15_OP10** 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. SZILÁGYI



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

- 15_OP11 DIELECTRIC PROPERTIES OF SILICA AEROGEL/GLASS FIBER REINFORCED POLYESTER COMPOSITES**
Deniz BOZOĞLU, D.DEĞER, H.DELİGÖZ, K.ULUTAŞ
- 15_OP12 STUDIES ON BRONZE PRE-MONETARY SIGNS FOUND IN DOBROUDJA USING MICRO-PIXE AND XRF**
Bogdan CONSTANTINESCU, D. CRISTEA-STAN, D. CECCATO, G. TALMATCHI
- 15_OP13 AC CONDUCTIVITY OF BITUMEN MATERIALS**
Cagdas DEMIRTAS, B. DEGER, M. S. YARDIM, T. KARA, D. BOZOGLU, K. ULUTAS, D. DEGER ULUTAS, S. YAKUT
- 15_OP14 MEASUREMENT OF INDOOR Rn-222 ACTIVITY CONCENTRATIONS AT THE ÇİFTLİK VILLAGE (IYIDERE/RIZE) KNOWN FOR ITS HIGH CANCER INCIDENCES**
Ömer Faruk DEMİRTAŞ, E. DURSUN, S. AKBULUT
- 15_OP15 DETERMINATION OF RADON ACTIVITY CONCENTRATION IN THE CAVE OF PILEKI USING A RADIM 3A ACTIVE RADON MONITOR AND CR-39 PASSIVE TRACK DETECTORS**
Ömer Faruk DEMİRTAŞ, S. AKBULUT, E. DURSUN, U. ÇEVİK
- 15_OP16 CHARACTERIZATION OF HIGH PERFORMANCE RANDOMLY SEGMENTED POLY(URETHANE SILOXANE) AND POLY(IMIDE SILOXANE) BLOCK COPOLYMERS**
Türkan DOĞAN, N. BAYDOĞAN, N.KOKEN
- 15_OP17 ELECTROCHROMIC DEVICE DESIGN AND FABRICATION INCLUDING NB2O5 THIN FILMS AS A CATHODIC LAYER**
Özlem DUYAR COŞKUN
- 15_OP18 GRAPHENE-BASED RADIATION DETECTOR**
Merve EREN, H. ÇETİN
- 15_OP19 THE EFFECT OF HEAT TREATMENT ON TENSILE STRENGTH IN Al-Zn-Mg ALLOY**
Harun EROL E. ACER, M. GÜNDÜZ
- 15_OP20 ELECTRICAL PROPERTIES OF Sn DOPED CdS THIN FILMS GROWN BY ULTRASONIC SPRAY PYROLYSIS TECHNIQUE**
Zeynep D. EYGİ, V. BİLGİN, B. DEMİRSELÇUK
- 15_OP21 TRITIUM CONCENTRATIONS IN FIRTINA AND HEMSIN RIVER WATERS IN RIZE, TURKEY**
Çiğdem FİNDİKLİ KAĞANOĞLU, S. DİZMAN, N. İPEK, R. KESER
- 15_OP22 EXAMINATION OF STRUCTURAL, OPTICAL, ELECTRONIC, ELASTIC PROPERTIES OF B_{1-x-y} In_xAl_yN ALLOYS DEPEND ON VEGARDS LAW IN X-RAY MACHINE AND AB-INITIO METHOD**
Ali GÜLTEKİN, Y. BAŞ, M. TAMER, M.K. ÖZTÜRK
- 15_OP23 TRITIUM ANALYSIS IN SEA WATER SAMPLES ALONG THE COASTLINE OF RIZE**
Neslihan İPEK, Ç. FİNDİKLİ KAĞANOĞLU, S. DİZMAN, R. KESER
- 15_OP24 EFFECT OF NI DIFFUSION ANNEALING TEMPERATURE ON CRUCIAL**



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

CHARACTERIZATION OF BI-2223 SUPERCONDUCTING SYSTEM

Mehmet Fatih KAHRAMAN, N.K. SARITEKIN, H. BILGE, M. DOGRUER, M. PAKDIL, Y. ZALAOGLU, G. YILDIRIM

15_OP25 DIELECTRIC PROPERTIES OF BITUMEN MATERIALS

Tugce KARA, B. DEGER, M. SINAN YARDIM, K. ULUTAS, D. DEGER ULUTAS, S. YAKUT, D. BOZOGLU, C. DEMIRTAS

15_OP26 EFFECT OF SILVER ADDITION ON MECHANICAL AND ELECTRICAL CHARACTERISTIC OF MELT-SPUN SN-5 WT% SB ALLOY

Ercan KARAKÖSE

15_OP27 INFLUENCE OF BISMUTH ADDITION ON THE MECHANICAL AND ELECTRICAL PROPERTIES OF SN-5 WT% SB ALLOY

Ercan KARAKÖSE

15_OP28 HIGH SURFACE AREA COATING FOR WATER CONDENSETION SYSTEMS

Mehmet Burak KAYNAR, S. ISMAT SHAH

15_OP29 MAGNETIC PROPERTIES OF NEODYMIUM AND GADOLINIUM DOPED BARIUM-FERRITE NANOSTRUCTURES

Mehmet Burak KAYNAR, ŞADAN ÖZCAN, S. ISMAT SHAH

15_OP30 STRUCTURE STUDY OF BACE0.85Y0.15O3-Δ (BCY15) AS SOFC MATERIAL

Kiril A. KREZHOV, D. VLADIKOVA, I. GENOV, E. SVAB, M. FABIAN

15_OP31 RECENT ADVANCES IN POWDER DIFFRACTION FOR THE NON-DESTRUCTIVE STRUCTURE/MICROSTRUCTURE ANALYSIS OF (NANO)MATERIALS

Matteo LEONI

15_OP32 STUDIES OF OPTICAL AND THERMO-OPTICAL PROPERTIES OF H-70 BY POLYTHERMIC REFRACTOMETRY TECNIQUE

Atila Eren MAMUK, P. ÖZDEN, A. NESRULLAZADE (NESRULLAJEV)

15_OP33 CO SENSING PROPERTIES OF POLYANILINE-BASED SENSOR

Mücella ÖZBAY KARAKUŞ, A. DELİBAŞ, H. ÇETİN

15_OP34 NEW TREATMENT METHODS IN RADIONUCLIDE THERAPY

Ahu ÖZKAN, M. O. DEMİRKOL, Y. YARAR

15_OP35 THE EXPERIMENTAL DETERMINATION OF INTERFACIAL ENERGIES FOR SOLID SN IN EQUILIBRIUM WITH Sn-Mg-Zn LIQUID

Esra ÖZTÜRK, Y. ALTINTAS, S. AKSÖZ, K. KEŞLİOĞLU, N. MARAŞLI

15_OP36 STRUCTURE AND DIELECTRIC PROPERTIES OF OLEIC ACID COATED CoFe₂O₄ NANOPARTICLES

Ezgi ÖZTÜRK YILMAZ, T. GÜRKAYNAK ALTINÇEKİÇ, D.EĞER ULUTAŞ, M. AÇIKGÖZ, K. ULUTAŞI, Ş. YAKUT

15_OP37 SUBSTITUTION COBALT ATOM IN MNB ALLOY AND EFFECT OF NANOSIZE MNBCO PARTICLES ON MAGNETIC PROPERTIES

Çağkan PIYAN, T. ŞİMŞEK, M. B. KAYNAR, Ş. ÖZCAN

15_OP38 MONITORING SYSTEM FOR TESTING THE RADIATION HARDNESS OF A KINTEX-7 FPGA

Vlad-Mihai PLACİNȚA, L.N. COJOCARIȚU,



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

- 15_OP39 PULSED LASER NANOSCRIBING OF ITO FILMS FOR SOLAR CELL APPLICATIONS**
Ramazan SAHIN, I. KABACELIK
- 15_OP40 A BUTTON - TYPE BEAM POSITION MONITOR DESIGN FOR TARLA FACILITY**
Müge TURAL GUNDOGAN, Ç. KAYA, Ö. YAVAŞ
- 15_OP41 BOLOMETRIC RESPONSE OF SUPERCONDUCTING YBCO MICROBRIDGES IN THE NEAR-INFRARED REGION**
Yiğitcan UZUN, O. KURAN, I. AVCI
- 15_OP42 DESIGN AND ANALYSIS OF A PERFECT METAMATERIAL ABSORBER FOR SUB-TERAHERTZ FREQUENCIES**
Daniel Voss, C. SABAH, T. WELLMANN, W. ZOUAGHI, H. G. ROSKOS
- 15_OP43 MAGNETOHYDRODYNAMIC EFFECTS IN A NOVEL ELECTROMAGNETICAL STIRRING CONFIGURATION**
Daniel VIZMAN, R.A. NEGRILA, A.POPESCU
- 15_OP44 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
- 15_OP45 PRODUCTION OF SILICA THIN FILM BY USING SOL-GEL METHOD PRODUCED FROM TEOS**
Cumhur YILDIRIM, N. TUNA, N. BAYDOGAN, M. BAYDOGAN
- 15_OP46 SURFACE MODIFICATION OF SILICA AEROGELS**
Cumhur YILDIRIM, N. TUNA, N. BAYDOGAN, M. BAYDOGAN
- 15_OP47 A TEST, MEASUREMENT AND CLASSIFICATION SYSTEM FOR THE PV CELLS**
Mustafa YILMAZ, C. KARAÇETİN
- 15_OP48 SCALE INDEX METHOD IN SEISMIC WAVES**
Nazmi YILMAZ, M. AKILLI, K. G. AKDENİZ



9th International Physics Conference of the Balkan Physical Union

24-27 August 2015, İstanbul University, İstanbul / Turkey

Biophysics and Medical Physics (16)

- 16_OP1 DETERMINATION OF APPROXIMATE FETAL DOSE IN NUCLEAR MEDICINE EXAMINATIONS: EVALUATION OF PREGNANCY CARE**
Iffet CAVDAR, N. YEYİN, H. TANYILDIZI, M. ABUQBEITAH, L. USLU, M. DEMİR
- 16_OP2 TRUE BEAM COMMISSIONING EXPERIENCE AT NORDLAND HOSPITALTRUST, NORWAY**
Lulzime DACI, K.FRIDSTROM, I.BILBERG
- 16_OP3 LINAC COMMISSIONING FOR RADIOSURGERY TREATMENTS A SINGLE –INSTITUTION EXPERIENCE IN ALBANIA**
Lulzime DACI, P.MALKAJ, D. MİTRUSHI
- 16_OP4 A NOVEL PRINTED FILM SENSOR FOR BIOMEDICAL APPLICATIONS ON FLEXIBLE SUBSTRATE**
Kerem DELIKOYUN, MUSTAFA YILMAZ
- 16_OP5 COMPARISON OF THE DOSE DISTRIBUTION OBTAINED FROM DOSIMETRIC SYSTEMS WITH INTENSITY MODULATED RADIOTHERAPY PLANNING SYSTEM IN THE TREATMENT OF PROSTATE CANCER**
Deniz KOÇYİĞİT USLU, M. GÖKÇE, C. ERTUNÇ, T. KARALI
- 16_OP6 TWO NEW ABIOTENETICAL EXPERIMENTS**
Dragan V. LUKIĆ
- 16_OP7 AN INVESTIGATION OF THE DOSE DISTRIBUTION EFFECT RELATED WITH COLLIMATOR ANGLE FOR VMAT**
Bora TAS, H.BILGE, S.T. OZTURK
- 16_OP8 NEUTRONS FROM MEDICAL ACCELERATOR: SIMPLIFIED ACTIVATION TECHNIQUE**
Arpad.Á. TÓTH, N.A. TODORVIĆ, M. KRMAR, O.R. KLISURIĆ
- 16_OP9 NURSE EXPOSURE DOSES RESULTED FROM BONE SCINTIGRAPHY PATIENT**
Duygu TUNÇMAN, B.KOVAN, L.POYRAZ, B.DEMİR, C.TÜRKMEN



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Physics Education (17)

- 17_OP1 USING THE KNOWLEDGE OF PENUMBRA WITH A TRICK SIMULATION**
Mustafa SAHIN BULBUL, L. K. WEE
- 17_OP2 A VISUALISATION PROBLEM ON LEARNING RELATIONSHIP BETWEEN FOCAL LENGTH AND RADIUS OF SPHERICAL MIRRORS**
Ramazan ÇEKEN
- 17_OP3 AN INTERDISCIPLINARY VIEWPOINT ON PHYSICS CONCEPTS IN TURKISH SCIENCE CURRICULUM**
Ramazan ÇEKEN
- 17_OP4 WHICH TOPICS DO THE TURKISH STUDENTS PREFER TO MAKE SIMPLE SCIENCE PROJECTS ?**
Ramazan ÇEKEN
- 17_OP5 THE EFFECT OF SCIENCE DEMONSTRATIONS AS A COMMUNITY SERVICE ACTIVITY ON PRE-SERVICE SCIENCE TEACHERS' TEACHING PRACTICES**
Derya KALTAKCI GUREL
- 17_OP6 PHYSICS LABORATORY AS A TEACHING METHOD: SOME ADVANTAGES IN PSYCHOMOTOR AND AFFECTIVE DOMAIN**
Boce MITREVSKI, O. ZAJKOV



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

History And Philosophy of Physics (18)

18_OP1 FROM “NATURAL PHILSOPHER” TO “PHYSICIST” : ANALYZING THE CONCEPT OF “SCIENCE” IN TERMS OF TWO TITLES IN THE CONTEXT OF HISTORY OF PHYSICS

Volkan DURAN

18_OP2 PHYSICS EDUCATION IN THE GREEK COMMUNITY OF ISTANBUL (19TH C.)- SCIENTIFIC INSTRUMENTS AND EXPERIMENTS IN ELECTROSTATICS.

Panagiotis LAZOS, G. VLAHAKIS

18_OP3 PHYSICS EDUCATION IN THE GREEK COMMUNITY OF ISTANBUL (19TH C.) - THE BOOKS.

Panagiotis LAZOS, G. VLAHAKIS



9th International Physics Conference of the Balkan Physical Union
24-27 August 2015, İstanbul University, İstanbul / Turkey

Metrology And Instrumentation (19)

19_OP1 TRACEABLE DYNAMIC SURFACE CHANGES OF PROSPECTIVE MASS ARTIFACTS IN DIFFERENT ENVIROEMENTAL CONDITIONS
Sevda KAÇMAZ, C.YILMAZ, B. SAKAR, O.OZTURK