



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

Poster Presentations

Nuclear Physics And Nuclear Energy (01)

- 01_PP1** NATURAL BACKGROUND RADIATION MEASUREMENT BY USING PORTABLE DETECTOR AT SCIENCE FACULTY OF ISTANBUL UNIVERSITY
Guler AGGEZ, N. HAFIZOGLU, L. S. YALCIN, B. GUNDOGDU, P. ISEL
- 01_PP2** IMAGE PROCESSING ANALYSIS OF NUCLEAR TRACK PARAMETERS FOR CR-39 DETECTOR IRRADIATED BY THERMAL NEUTRON
Hussain A. AL-JOBOURI, M. Y. RAJAB
- 01_PP3** GROSS ALPHA AND BETA ACTIVITIES IN TAP WATERS OF SIIRT PROVINCE, TURKEY
Ahmet ALTUN, N. DAMLA, H. TASKIN
- 01_PP4** SOME IMPORTANT NUCLEAR PLANT ACCIDENTS HAPPENING UNTIL TODAY; THEIR CAUSES AND CONSEQUENCES
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- 01_PP5** RADIOMETRIC AND CHEMICAL ANALYSIS OF VOLCANIC TUFF STONES USED AS BUILDING AND ORNAMENTAL MATERIALS AND EVALUATION OF RADIOLOGICAL RISK
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- 01_PP8** FABRICATION AND NEUTRON SHIELDING DETERMINATION OF SUPER ALLOYS RHENIUM BASED BY MONTE CARLO SIMULATION CODES (CERN FLUKE-GEANT4)
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- 01_PP9** BEAM ENERGY RESPONSE OF IN VIVO SEMICONDUCTOR DETECTORS FOR RADIOTHERAPY
Syrja BACI, E. TELHAJ, P. MALKAJ
- 01_PP10** A STUDY OF EFFECTIVE ATOMIC NUMBER OF SOME COMPOUNDS USING THE RAYLEIGH TO COMPTON SCATTERING RATIO
Mehmet BÜYÜKYILDIZ
- 01_PP11** DETERMINATION OF ^{238}U , ^{232}Th AND ^{40}K RADIOACTIVITY CONCENTRATIONS IN SAKARYA SOIL SAMPLES USING NaI (TI) DETECTOR



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Gülçin BILGICI CENGİZ, I. ÇAĞLAR

01_PP13 NATURAL RADIOACTIVITY MEASUREMENTS IN ARDAHAN PROVINCE OF TURKEY

Gülçin BILGICI CENGİZ, I. ÇAĞLAR, Ş. BALCI

01_PP14 DETERMINATION OF ²²²RN ACTIVITY CONCENTRATION OF INDOOR ENVIRONMENTS IN BINGOL PROVINCE WITH CR-39 NUCLEAR TRACE DETECTORS

Esra CİNAN, E.KAVAZ, N.EKİNCİ, O.ULUSOY, Y.OZDEMİR

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Aqueel J. FLAYYIH, M.I. KILINC, R.G. YILDIRIM

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Slavica GJORGIEVA, L. BARANDOVSKI

01_PP18 BLACK BODY RADIATION AND PHOTOELECTRIC EFFECT

Ercan GULES, C. SELALMAZ, S. ISGOR, A. KURT, Y. OKTEM

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Mehmet KILINÇ, A. J. FLAYYIH, Z.ÖZTÜRK

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Margarita KUQALI, D. KUQI, D. TOPCIU

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Murat KURUDİREK, M. BÜYÜKYILDIZ

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Pelin OTANSEV, H.TAŞKİN, A. BAŞSARI, A. VARİNLİOĞLU

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Mohamed Reda OUDIH F. SAIDI, M. FELLAH, N.H. ALLAL

01_PP25 NUMBER PROJECTION EFFECT, IN THE ISOVECTOR PAIRING CASE, ON THE ENERGY OF ODD MASS N \approx Z NUCLEI

Mohamed Reda OUDIH, M. FELLAH, N.H. ALLAL



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- 01_PP31 RADIOACTIVE POLLUTION LEVEL DETERMINATION OF SOIL SAMPLES IN THE OSMANIYE REGION**
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- 02_PP2** **FROM STARDUST TO PRESENT**
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- 02_PP3** **A CALCULATION FOR RADIAL EXPECTATION VALUES OF HELIUM LIKE ACTINIDE IONS (Z=89-93)**
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- 02_PP4** **RADIAL EXPECTATION VALUES FOR HELIUM LIKE ACTINIDE IONS (Z=94-98)**
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- 03_PP2** **PHYSICAL EFFECTS OF REISSNER-NORDSTRÖM BLACK HOLES: QUASI
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- 03_PP3** **MIMETIC F(R) GRAVITY VIA NOETHER SYMMETRY**
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- 03_PP4** **ROTATING BIANCHI TYPE-III MODEL IN F(R) THEORY OF GRAVITY**
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Murat AYDIN, R. ŞİMŞEK, Ö. KÖKPINAR

04_PP14 **STRUCTURE AND VIBRATIONAL SPECTROSCOPIC PROPERTIES OF 2-AMINO-1-METHYLBENZIMIDAZOLE MOLECULE**

Emine BABUR ŞAŞ M. KURT, M. ÇEVİK

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Hakan BÜLBÜL, F. TINMAZ, N.DEGE, İ. ÖZER İLHAN, E.SARIPINAR

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Esra CINAN, N.EKINCI, E.KAVAZ, O.ULUSOY

04_PP26 **DETERMINATION OF THE MASS ATTENUATION COEFFICIENT,**



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EFFECTIVE ATOMIC NUMBER AND ELECTRON DENSITY OF DIFFERENT SEMICONDUCTOR MATERIALS

Esra CINAN, O.ULUSOY, N.EKINCI, E.KAVAZ

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Samuel COHEN P. KALAITZIS, E. PAVLOU, A. MARCINIAK, T. BARILLOT, F. LÉPINE, C. BORDAS

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04_PP29 ELECTRONIC PROPERTIES OF ARMCHAIR GRAPHENE NANORIBBONS WITH NICKEL TERMINATION

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Mustafa ÇALIŞKAN

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Sefa CELIK, AYSEN E. OZEL

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04_PP36 MEASUREMENT OF $K\beta/K\alpha$ X-RAY INTENSITY RATIOS IN BORON DOPED NiO THIN FILMS PRODUCED BY CHEMICAL SPRAYING METHOD

Saim DAĞLI, Ö. SÖĞÜT, O. K. KÖKSAL, H. YAYKAŞLI

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Fatih DEDEOĞLU, Ö. SÖĞÜT, G. APAYDIN, Ü. ALVER



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- 04_PP39 MEASUREMENT OF K X-RAYS FLUORESCENCE CROSS-SECTIONS OF SOME Ba COMPOUNDS**
Burhanettin Göker DURDU A. KUCUKONDER
- 04_PP40 INVESTIGATION OF QUANTUM CHEMICAL PROPERTIES OF 2,3,5,6-TETRABROMOBICYCLO[2.2.1]HEPT-2-ENE BY DFT AND HF METHODS**
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- 04_PP41 A STUDY ON QUANTUM CHEMICAL CALCULATIONS OF (1RS,2SR)-1, 2, 4, 5, 7-PENTABROMO-5-METHOXYINDANE**
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- 04_PP42 DFT STUDY ON STRUCTURAL PROPERTIES AND ENERGIES OF *trans, trans, trans*-1,4-DIMETHOXY-2, 3,5,8-TETRABROMOTETRALIN COMPOUND**
Uğur DÜNDAR, C.C. ERSANLI
- 04_PP43 CONFORMATIONAL ANALYSIS OF BIOLOGICALLY ACTIVE CYCLOPEPTIDE**
AYSEN E. OZEL, S.CELIK
- 04_PP44 EXPERIMENTAL HYPERFINE STRUCTURE ANALYSIS OF ATOMIC NIOBIUM USING LASER INDUCED FLUORESCENCE SPECTROSCOPY**
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- 04_PP45 NUMERICAL SOLUTION OF THE TIME-DEPENDENT SCHRÖDINGER EQUATION FOR MOLECULAR HYDROGEN ION IN A LINEARLY POLARIZED LASER FIELD**
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- 04_PP46 ATOMIC PROCESSES IN STRONG BICHROMATIC ELLIPTICALLY POLARIZED FIELDS**
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- 04_PP47 MEASUREMENT OF THE VACANCY TRANSITION PROBABILITIES FROM K SHELL TO L SHELLS BORON-DOPED ZnO THIN FILMS BY USING XRF TECHNIQUE**
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- 04_PP48 $2p^5 3l3l'$ ($l, l' = 0, 1, 2$)- $3s$ AND $-3p$ TRANSITIONS FOR Na-LIKE TUNGSTEN**
Gülay GÜNDAY KONAN, L. ÖZDEMİR
- 04_PP49 LASER MASS SPECTROMETRY OF C₆₀ FULLERENE MOLECULA AND GRAPHITE**
Yasemin GÜNDOĞDU, H.Ş KILIÇ, A. KEPCEOĞLU, K.W.D. LEDINGHAM, M. AKBAŞ, M. DOĞAN
- 04_PP50 HALOGEN EFFECT INVESTIGATIONS ON MOLECULAR STRUCTURE OF 5X-THIOPHENE-2-CARBALDEHYDE (X = H, F, Cl, Br or I)**
Esma GÜNEŞ, Ö.BAĞLAYAN, C. PARLAK, M. ŞENYEL



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- 04_PP52** NEW EVEN-PARITY ENERGY LEVELS OF ATOMIC LANTHANUM
Feyza GÜZELÇİMEN, A. ER, İ.K. ÖZTÜRK, G. BAŞAR, S. KRÖGER, I. SIDDIQUI, L. WINDHOLZ
- 04_PP53** INVESTIGATION OF COMET WILD-2 IN TERMS OF EFFECTIVE ATOMIC NUMBERS
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- 04_PP54** TRANSITION PARAMETERS FOR THE FINE STRUCTURE LEVELS OF THE $(1s^2)2s^22p^3nl$ ($n=4,5; l=0-4$) IN NE III
Selda KABAĞÇI, L. ÖZDEMİR
- 04_PP55** TWO POLYMORPHIC CRYSTAL STRUCTURES OF PYRIDINE-4-METHANOL WITH FUMARIC ACID
Sevgi KANSIZ, S. SELYANI, İ. UÇAR, M. S. SOYLU
- 04_PP56** COMPARISON OF ELEMENTAL COMPOSITION OF ARCHAEOLOGICAL CERAMICS BELONGING TO DIFFERENT PERIODS ON OLIVE ISLANDS (ARTEKA)
Esra KAVAZ, U. PERİŞANOĞLU, B. KAVAZ, Ö. F. AYDEMİR, Y. ÖZDEMİR
- 04_PP57** DENSITY FUNCTIONAL THEORY STUDIES OF KETOPROFEN ON CORROSION INHIBITION EFFICINCIES
Filiz KAYADIBI, S. SAGDINC, S. ZOR
- 04_PP58** EXPLICIT EXPRESSIONS OF QUANTUM MECHANICAL ROTATION OPERATORS FOR SPINS 1 TO 7/2
Mehpeyker KOCAKOÇ, R.TAPRAMAZ
- 04_PP59** ELECTRON PARAMAGNETIC RESONANCE SPECTRAL STUDY ON SINGLE CRYSTALS OF $[\text{Mn}(\text{acs})_2(2\text{-pic})_2(\text{H}_2\text{O})_2]$
Mehpeyker KOCAKOÇ, R.TAPRAMAZ
- 04_PP60** GEOMETRICAL AND ENERGETIC PROPERTIES OF 15-ATOM TERNARY CD-ZN-TE CLUSTERS
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04_PP69 DETERMINATION OF VALENCE ELECTRON DENSITY CHANGING IN ACCORDANCE WITH VARIOUS Co CONCENTRATION IN SOME TRANSITION METAL ALLOYS

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04_PP72 A THEORETICAL ANALYSIS OF VIBRATIONAL SPECTRA AND ELECTRONIC TRANSITIONS ON 4-(2-AMINOETHYL)PYRIDINE AND ITS DIMERIC FORMS

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04_PP75 ANALYSIS OF ÇAKŞIR PLANTS (FERULA COMMUNIS) WITH ENERGY DISPERSIVE X-RAY FLUORESCENCE

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04_PP78 LIQUID ETHANOL UNDER ELECTRIC FIELD

M. KEMAL YILDIRIM, HATİCE ESİN DÜVEN, MİNE İLK ÇAPAR

04_PP79 PLASMONIC TUNING OF GOLD DOPED THIN FILMS FOR LAYERS OF PHOTOVOLTAIC DEVICE

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- 06_PP55** **PHOTOIONIZATION CROSS-SECTION AND OSCILLATOR STRENGTH OF HYDROGENIC IMPURITIES IN GaAs QUANTUM BOX**
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- 06_PP60** **TIME SCALING RELATIONS FOR STEP BUNCHES FROM MODELS WITH STEP-STEP ATTRACTIONS (B1-TYPE MODELS)**
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- 07_PP2 ABLATION THRESHOLD FLUENCE DETERMINATION OF PLD DEPOSITED THIN FILMS AND BULK TARGETS USING D-SCAN METHOD**
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- 07_PP3 THE ISOTHERMAL OF VAPOR SORPTION IN THIN SUPPORTED POLYVINYL ALCOHOL FILMS STUDIED BY WHITE LIGHT INTERFEROMETRY: THE EFFECT OF THERMAL TREATMENT**
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- 07_PP6 FREE ELECTRON LASER**
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Anna S. KRASTEVA, T. A. VARTANYAN, S. S. CARTALEVA
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Muhammet OZTURK, M. KURT
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- 08_PP2** **TWO-DIMENSIONAL EXTENDED FLUID MODEL OF APPLIED-FIELD MAGNETOPLASMA DYNAMIC (MPD) THRUSTER WITH SOLID AND HOLLOW CATHODES.**
Stepan I. ELISEEV, A.A. KUDRYAVSTEV, A.I. SAIFUTDINOV, S. CAKIR, I. RAFATOV
- 08_PP3** **ON A FOCAL POINT INSTABILITY IN ($B^3\Pi_g - C^3\Pi_u$) N_2 OPTOGALVANIC CIRCUIT WITH HOLLOW CATHODE**
Vesselina D. GENCHEVA
- 08_PP4** **THE METHOD FOR ELECTRIC FIELD DISTRIBUTION MEASUREMENT IN CATHODE FALL REGION OF AN ABNORMAL GLOW DISCHARGE IN NEON**
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- 08_PP5** **GAS TEMPERATURE MEASUREMENT IN DEUTERIUM HOLLOW CATHODE GLOW DISCHARGE**
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- 08_PP6** **A NEW PLASMA SYSTEM FOR STUDENT AND TEACHER EDUCATION**
Soner ÖZEN, S. KORKMAZ, E.C.AYBEK, S. PAT
- 08_PP7** **INVESTIGATION OF THE THICKNESS EFFECT TO IMPEDANCE ANALYSIS RESULTS ALGAN ACOSUTIC SENSOR**
Soner ÖZEN, E.BILGIÇ, G.GÜLMEZ, V.ŞENAY, S.PAT, S.KORKMAZ
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- 08_PP9** **DETERMINATION OF ANTIBACTERIAL PROPERTIES OF THE COATED ORGANIC SURFACE**
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- 08_PP10** **IMPURITY GAS ANALYSIS FROM THE ENERGY SPECTRA OF PENNING ELECTRONS IN PLASMA USING A WALL PROBE**
Almaz I. SAIFUTDINOV, A.A. KUDRYAVSTEV, SYSOEV S.S., S.I. ELISEEV, S. CAKIR, I. RAFATOV
- 08_PP11** **STARK PARAMETER DEPENDENCE ON THE REST CORE CHARGE OF THE EMITTERS FOR MULTIPLY CHARGED IONS SPECTRAL LINES**
Mara ŠĆEPANOVIĆ, J. PURIĆ
- 08_PP12** **OBTAINING THE REAL PROFILE OF SELF-ABSORBED CUPPER SPECTRAL LINE BY REGULARIZATION METHOD**
Mira VUCELJIC, S.BRAJOVIC, M. SCEPANOVIC, S.MIJOVIC



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- 09_PP3** **DISCRETE FREAK WAVES IN A DISORDERED NONLINEAR MEDIUM**
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- 09_PP4** **SOME RESULTS ON THE INFINITESIMAL BENDING AND THE BONNET PROBLEM**
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- 09_PP7** **STUDY OF THE DYNAMICS OF A PARTICLE CONFINED IN AN ELECTRODYNAMIC LINEAR TRAP**
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- 10_PP2 FIXED POINTS OF A BIOLOGICAL SYSTEM OBTAINED WITH THE BOOLEAN NETWORK**
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- 11_PP3** **ATMOSPHERIC WATER VAPOR DEPENDING LST CALCULATION USING THERMAL SATELLITE DATA**
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- 12_PP2 EVOLUTION OF CLEAR DAY SOLAR RADIATION AS AN INDICATOR OF INFLUENCE OF ANTHROPOGENIC AEROSOLS IN ATMOSPHERE ON SOLAR ENERGY POTENTIAL**
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- 12_PP11 SATELLITE EARTH OBSERVATION DATA TO IDENTIFY CLIMATE AND ANTHROPOGENIC PRESSURES ON BUCHAREST PERIURBAN FORESTS**
Maria ZORAN, R.SAVASTRU, D. SAVASTRU, A. DIDA



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Ahmet ALTINDAL, S.ERDÖNMEZ, B. SÜNGÜ MISIRLIOĞLU
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- 13_PP5 REGIONAL DISTRIBUTION OF LIFE CYCLE COST OF HOT WATER PRODUCED BY SOLAR COLLECTORS IN ALBANIA**
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- 13_PP8 NOVEL SEMICONDUCTOR SOLAR CELL STRUCTURES:THE QUANTUM DOT (QD) INTERMEDIATE BAND SOLAR CELL (IBSC)**
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- 13_PP9 SATELLITE SOLAR DATA FOR APPLICATIONS IN PHOTOVOLTAIC SYSTEMS IN ALBANIA AND ECONOMIC PERFORMANCE ASSESSMENT**
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- 13_PP13 STATISTICAL ANALYSIS OF SOLAR RADIATION MODELS ONTO INCLINED PLANES FOR CLIMATIC CONDITIONS OF BATMAN (TURKEY)**
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