

Prof. İSMAİL BOZTOSUN

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ScopusID: 6603345121

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Biography

Prof . Dr. İsmail Boztosun (Department of Physics / Akdeniz University)

He was born on January 10, 1973 in Kayseri/Turkey. He completed his PhD in the Department of Nuclear Physics at Oxford University by receiving an award in 2000 due to " new coupling potential " model explaining the long-lasting unexplained problems in nuclear physics. The experiments conducted at Australian National University showed that the model is successful During his doctoral studies, he worked as a lecturer at the same university. After his doctorate, he worked in Applied Mathematics at Portsmouth University, England between 2000-2002. Here, his work on solving partial differential equations with a new numerical method was supported by EPSRC.

Returning to home country in 2002, he became Assistant Professor in Erciyes University Physics Department, Associate Professor in 2005 and Professor at Akdeniz University in 2010. He is the founder of Nuclear Research and Application Center and he has published over 100 international SCI paper with 27 h-index over 2000 citation.

His achievements in Nuclear Physics area in Turkey:

- I. He founded NUBA, the first and only Nuclear Research and Application Center of Turkey with its own Electron Accelerator,
- II. First photonuclear reaction of Turkey performed at Akdeniz University by his group using local facilities,
- III. He established the first competent and certified accelerator group in Turkey,
- IV. First industrial applications of nuclear techniques made from Agriculture to Engineering,
- V. For the first time, solved Bohr Hamiltonian for an exponential potential and explained the nuclear structure properties of many nuclei,
- VI. Developed a new coupling potential model for the explanation of nuclear reactions and explained the scattering observables simultaneously.

He has so far received the following awards:

- I. UNESCO-World Year of Physics 2005 Turkish Physical Society Prof. Dr. Şevket ERK Young Scientist prize, given by

the Turkish Physical Society in 2005.

- II. Turkish Academy of Sciences Outstanding Young Scientist Award (TUBA-GEBIP) in 2007,
- III. TUBITAK Basic Science Encouragement Award in 2010 and
- IV. Akdeniz University Distinguished Scientist Award in 2013.

He is a member of the Turkish Physical Society and serves on the Advisory Board of Turkish Atomic Energy Agency and the TÜBİTAK.

Prof. Dr. İsmail Boztosun is still working as the Head of Nuclear Physics Division of Physics Department at Akdeniz University. Married with two children.

Education Information

Doctorate, University of Oxford, Fizik, Nükleer Fizik, United Kingdom 1997 - 2000

Undergraduate, Erciyes University, Fen Fakültesi, Fizik , Turkey 1991 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A new coupling potential for the scattering of deformed light-heavy ion reactions, University of Oxford, Fizik, Nükleer Fizik, 2000

Research Areas

Physics, Nuclear physics, General Nuclear Reactions, Nuclear Structure, Experimental Methods of Particle and Nuclear Physics, Natural Sciences

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Fizik, 2010 - Continues

Associate Professor, Erciyes University, Fen Fakültesi, Fizik , 2003 - 2010

Lecturer PhD, University of Portsmouth, Faculty of Science, Fizik, 2000 - 2001

Advising Theses

BOZTOSUN İ., Bazı toprak numunelerinde ağır metal konsantrasyonlarının fotoaktivasyon analizi ile belirlenmesi, Doctorate, O.Ağar(Student), 2016

BOZTOSUN İ., 8He+Hedef elastik saçılma sistemlerinin optik model yaklaşımı ile incelenmesi, Doctorate, M.Direkçi(Student), 2016

BOZTOSUN İ., Fotoaktivasyon yöntemi ile kum tanelerinin elementel analizi ve fotofisyon ürünlerinin belirlenmesi,

Doctorate, C.Eke(Student), 2015

BOZTOSUN İ., Fotoaktivasyon analiz yöntemi ile antik sikkelerin element konsantrasyonlarının belirlenmesi,

Postgraduate, C.Ertuğay(Student), 2015

BOZTOSUN İ., Egzotik çekirdek reaksiyonlarının optik model ve çiftlenmiş kanallar modeliyle incelenmesi, Postgraduate, M.Üstün(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Natural and artificial radionuclide activity concentrations and dose assessments of some medicinal plants in Balıkesir, Turkey**
Kamışlıoğlu M., EKE C., Kaman T., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.103, no.20, pp.9062-9080, 2023 (SCI-Expanded)
- II. **Numerical investigation of the resonance modes for the dielectric optical micro-spheres by using radial basis function method**
Ertugay C., BOZTOSUN İ.
International Journal of Modern Physics C, vol.33, no.10, 2022 (SCI-Expanded)
- III. **A new proton spectra for nat Cu(p,xp) reaction at E p= 7 and 30 MeV**
Küçük Y., Zholdybayev T., Canbula B., Mukan Z., Sadykov B., Nassurlla M., Ismailov K., Yücel M. B., Boztosun İ.
European Physical Journal A, vol.58, no.5, 2022 (SCI-Expanded)
- IV. **A realistic numerical treatment of Coulomb potential in comparison with the analytical approximations**
Dapo H., KÜÇÜK Y., BOZTOSUN İ.
European Physical Journal A, vol.58, no.5, 2022 (SCI-Expanded)
- V. **Energy transitions and half-life determinations of 4 7 Sc isotopes from photonuclear reaction on Ti target**
KOÇAK G., AKKOYUN S., BOZTOSUN İ., Dapo H.
International Journal of Modern Physics E, vol.31, no.3, 2022 (SCI-Expanded)
- VI. **Multichannel experimental and theoretical constraints for the Cd-116(Ne-20, F-20)In-116 charge exchange reaction at 306 MeV**
Burrello S., Calabrese S., Cappuzzello F., Carbone D., Cavallaro M., Colonna M., Lay J. A., Lenske H., Agodi C., Ferreira J. L., et al.
PHYSICAL REVIEW C, vol.105, no.2, 2022 (SCI-Expanded)
- VII. **Natural and artificial radioactivity levels of greenhouse soils and relations with soil properties**
TOPCUOĞLU B., ÖZMEN S. F., BOZTOSUN İ., GÜLLÜDAĞ C. B.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.331, no.2, pp.783-797, 2022 (SCI-Expanded)
- VIII. **A study on the activity concentrations of Ra-226, Th-232, K-40, Cs-137 and radiological risk assessments in soil samples from Seydisehir and Beysehir districts of Konya in Turkey**
ÖZAYDIN ÖZKARA R., EKE C., BOZTOSUN İ.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.330, no.3, pp.1017-1025, 2021 (SCI-Expanded)
- IX. **Measurement of the double charge exchange reaction for the Ne-20**
Soukeras V., Cappuzzello F., Carbone D., Cavallaro M., Agodi C., Acosta L., Boztosun I., Brischetto G. A., Calabrese S., Calvo D., et al.
RESULTS IN PHYSICS, vol.28, 2021 (SCI-Expanded)
- X. **Gamma spectrometry measurements of natural and artificial radioactivity of Saklıkent-Antalya and its correlation to quarries**
YILDIRIM A., SOLAKCI S. O., EKE C., BOZTOSUN İ.
ARABIAN JOURNAL OF GEOSCIENCES, vol.14, no.16, 2021 (SCI-Expanded)
- XI. **New measurements and analysis of elastic scattering of C-13 by Be-9 nuclei in a wide energy range**
Nassurlla M., Burtebayev N., Karakozov B. K., Sakuta S. B., Boztosun I., Amangeldi N., Morzabayev A. K., Yergaliyul G.,

Alimov D. K., Burtebayeva J., et al.

EUROPEAN PHYSICAL JOURNAL A, vol.57, no.7, 2021 (SCI-Expanded)

- XII. **An Analysis of Elastic Scattering Angular Distributions of F-17 on a Pb-208 Target at Different Energies**
Celik S. K., BOZTOSUN İ., DOĞRU M.
FEW-BODY SYSTEMS, vol.62, no.2, 2021 (SCI-Expanded)
- XIII. **Initial State Interaction for the Ne-20**
Carbone D., Linares R., Amador-Valenzuela P., Calabrese S., Cappuzzello F., Cavallaro M., Firat S., Fisichella M., Spatafora A., Acosta L., et al.
UNIVERSE, vol.7, no.3, 2021 (SCI-Expanded)
- XIV. **Analysis of two-nucleon transfer reactions in the Ne-20+Cd-116 system at 306 MeV**
Carbone D., Ferreira J. L., Calabrese S., Cappuzzello F., Cavallaro M., Hacisalihoglu A., Lenske H., Lubian J., Vsevolodovna R. I. M., Santopinto E., et al.
PHYSICAL REVIEW C, vol.102, no.4, 2020 (SCI-Expanded)
- XV. **New measurements and reanalysis of(14)N elastic scattering on(10)B target***
NASSURLLA M., BURTEBAYEV N., SADYKOV T. K., BOZTOSUN İ., AMANGELDI N., ALIMOV D., KERİMKULOV Z., BURTEBAYEVA J., NASSURLLA M., KURAKHMEDOV A., et al.
CHINESE PHYSICS C, vol.44, no.10, 2020 (SCI-Expanded)
- XVI. **Using a clinical linac to determine the energies of gamma-ray transitions and half-lives of barium nuclei**
ÇALIK A. E., MANİSA K., Bicer A., ERDOĞAN M., Sen M., BİRCAN H., Dapo H., BOZTOSUN İ.
MODERN PHYSICS LETTERS A, vol.35, no.10, 2020 (SCI-Expanded)
- XVII. **Feasibility of using "Off-The-Shelf" clinical linac for soil multi-elemental instrumental photon activation analysis**
Shurkhuu T., Segebade C. P., Dapo H., BOZTOSUN İ., Vostokin G. K., Maslov O. D., Belov A. G.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.322, no.2, pp.337-346, 2019 (SCI-Expanded)
- XVIII. **Ne-20 +Ge- 76 elastic and inelastic scattering at 306 MeV**
Spatafora A., Cappuzzello F., Carbone D., Cavallaro M., Lay J. A., Acosta L., Agodi C., Bonanno D., Bongiovanni D., BOZTOSUN İ., et al.
PHYSICAL REVIEW C, vol.100, no.3, 2019 (SCI-Expanded)
- XIX. **Low-lying dipole strength in the well-deformed nucleus Gd-156**
Tamkas M., Aciksoez E., Isaak J., Beck T., Benouaret N., Bhike M., BOZTOSUN İ., Durusoy A., Gayer U., Krishichayan K., et al.
NUCLEAR PHYSICS A, vol.987, pp.79-89, 2019 (SCI-Expanded)
- XX. **Charge-state distributions of Ne-20 ions emerging from thin foils**
CAVALLARO M., SANTAGATI G., CAPPUZZELLO F., CARBONE D., LINARES R., TORRESI D., ACOSTA L., AGODI C., BONANNO D., BONGIOVANNI D., et al.
RESULTS IN PHYSICS, vol.13, 2019 (SCI-Expanded)
- XXI. **Determination of the Sr/Ca ratio of tooth samples by photoactivation analysis in Southern Turkey**
Kavun Y., BOZTOSUN İ., Dapo H., Maras I., Segebade C.
RADIOCHIMICA ACTA, vol.106, no.9, pp.759-768, 2018 (SCI-Expanded)
- XXII. **The NUMEN project: NUClear Matrix Elements for Neutrinoless double beta decay**
CAPPUZZELLO F., AGODI C., CAVALLARO M., CARBONE D., TUDISCO S., LO PRESTI D., Oliveira J. R. B., FINOCCHIARO P., COLONNA M., RIFUGGIATO D., et al.
EUROPEAN PHYSICAL JOURNAL A, vol.54, no.5, 2018 (SCI-Expanded)
- XXIII. **FIRST MEASUREMENT OF THE Cd-116(Ne-20, O-20)Sn-116 REACTION AT 15 A MeV**
CALABRESE S., CAPPUZZELLO F., CARBONE D., CAVALLARO M., AGODI C., ACOSTA L., BONANNO D., BONGIOVANNI D., Borello-Lewin T., BOZTOSUN İ., et al.
ACTA PHYSICA POLONICA B, vol.49, no.3, pp.275-280, 2018 (SCI-Expanded)
- XXIV. **Study of filling material of dental composites: an analytical approach using radio-activation**
Eke C., Er K., Segebade C., Boztosun İ.

- RADIOCHIMICA ACTA, vol.106, no.1, pp.69-77, 2018 (SCI-Expanded)
- XXV. **Determination of the energy transitions and half-lives of Rubidium nuclei**
Bicer A., Manisa K., ÇALIK A. E., Erdogan M., Sen M., Bircan H., dapo H., BOZTOSUN İ.
OPEN PHYSICS, vol.16, no.1, pp.63-68, 2018 (SCI-Expanded)
- XXVI. **SCATTERING OF 15N IONS BY 10,11B NUCLEI AT THE ENERGY OF 43 MeV**
KARAKOÇ M., ALIMOV D., BOZTOSUN İ., BURTEBAYEV N.
ACTA PHYSICA POLONICA B, vol.11, pp.99-107, 2017 (SCI-Expanded)
- XXVII. **Attenuation properties of radiation shielding materials such as granite and marble against gamma-ray energies between 80 and 1350 keV**
EKE C., Ağar O., SEGEBADE C., BOZTOSUN İ.
RADIOCHIMICA ACTA, vol.105, no.10, pp.851-863, 2017 (SCI-Expanded)
- XXVIII. **Photoactivation Analysis of Mineral Trioxide Aggregate: Preliminary Results**
Eke C., Er K., Segebad C., Boztosun İ.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.869-871, 2017 (SCI-Expanded)
- XXIX. **Multielemental analysis of some soils in Karaman by PAA using a cLINAC**
Ağar O., BOZTOSUN İ., SEGEBADE C.
APPLIED RADIATION AND ISOTOPES, vol.122, pp.57-62, 2017 (SCI-Expanded)
- XXX. **Determination of self-attenuation correction factor for lichen samples by using gamma-ray spectrometry**
EKE C., AGAR O., BOZTOSUN İ., ASLAN A., Emsen B.
KERNTECHNIK, vol.82, no.1, pp.136-139, 2017 (SCI-Expanded)
- XXXI. **Transition energy and half-life determinations of photonuclear reaction products of erbium nuclei**
BAYRAM T., AKKOYUN S., Uruk S., dapo H., DULGER F., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.25, no.12, 2016 (SCI-Expanded)
- XXXII. **Measuring decay of praseodymium isotopes activated by a clinical LINAC**
Boztosun I., dapo H., Karakoc M.
MODERN PHYSICS LETTERS A, vol.31, no.36, 2016 (SCI-Expanded)
- XXXIII. **Radial sensitivity of the optical model potentials for He-4+Sn-120 and He-6+Sn-120**
SERT Y., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E, vol.25, no.9, 2016 (SCI-Expanded)
- XXXIV. **Using a clinical linac to determine the energy levels of Nb-92m via the photonuclear reaction**
Aygün M., Cesur A., Dogru M., BOZTOSUN İ., DAPO H., Kanarya M., Kuluorturk M. F., Bal S. S., Karatepe S.
APPLIED RADIATION AND ISOTOPES, vol.115, pp.97-99, 2016 (SCI-Expanded)
- XXXV. **Energy level and half-life determinations from photonuclear reaction on Ga target**
AKKOYUN S., BAYRAM T., DULGER F., dapo H., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.25, no.8, 2016 (SCI-Expanded)
- XXXVI. **Determination of gamma-ray energies and half lives of platinum radio-isotopes by photon activation using a medical electron linear accelerator: a feasibility study**
EKE C., BOZTOSUN İ., dapo H., SEGEBADE C., BAYRAM E.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.309, no.1, pp.79-83, 2016 (SCI-Expanded)
- XXXVII. **PHOTOFISSION EXPERIMENTS AT ELI-NP**
BALABANSKI D. L., IBRAHIM F., KRASZNAHORKAY A., BOZTOSUN İ., CHOUDHURY D., COBAN S. S., CONSTANTIN P., CSIGE L., CUONG P. V., DICKEL T., et al.
ROMANIAN REPORTS IN PHYSICS, vol.68, 2016 (SCI-Expanded)
- XXXVIII. **Comparison between natural radioactivity levels and geochemistry of some granitoids in western Turkey**
ERKUL S., ÖZMEN S. F., ERKÜL F., BOZTOSUN İ.
TURKISH JOURNAL OF EARTH SCIENCES, vol.25, no.3, pp.242-255, 2016 (SCI-Expanded)
- XXXIX. **Microtus guentheri (Danford & Alston, 1880) (Rodentia: Cricetidae) as a biomonitor for radionuclides in Mersin Province of Turkey**
YAVUZ M., ÖZMEN S. F., TUNÇ M. R., BOZTOSUN İ.

TURKISH JOURNAL OF ZOOLOGY, vol.40, no.4, pp.561-573, 2016 (SCI-Expanded)

- XL. **Photonuclear reactions with zinc: A case for clinical linacs**
Boztosun I., Dapo H., Karakoç M., Özmen S. F., Cecen Y., Çoban A. Y., Caner T., Bayram E., Saito T. R., Akdogan T., et al.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.130, no.9, 2015 (SCI-Expanded)
- XLI. **Determination of activity concentration of natural and artificial radionuclides in sand samples from mediterranean coast of Antalya in Turkey**
EKE C., BOZTOSUN İ.
KERNTECHNIK, vol.80, no.3, pp.280-290, 2015 (SCI-Expanded)
- XLII. **MEASUREMENT OF RADIOACTIVITY LEVELS AND ASSESSMENT OF RADIOACTIVITY HAZARDS OF SOIL SAMPLES IN KARAMAN, TURKEY**
Agar O., BOZTOSUN İ., Korkmaz M. E., ÖZMEN S. F.
RADIATION PROTECTION DOSIMETRY, vol.162, no.4, pp.630-637, 2014 (SCI-Expanded)
- XLIII. **Distribution of natural and anthropogenic radionuclides in beach sand samples from Mediterranean Coast of Turkey**
ÖZMEN S. F., Cesur A., BOZTOSUN İ., YAVUZ M.
RADIATION PHYSICS AND CHEMISTRY, vol.103, pp.37-44, 2014 (SCI-Expanded)
- XLIV. **Gamma-ray spectrometry for the self-attenuation correction factor of the sand samples from Antalya in Turkey**
EKE C., BOZTOSUN İ.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.301, no.1, pp.103-108, 2014 (SCI-Expanded)
- XLV. **Gamow-Teller transitions in the A=40 isoquintet of relevance for neutrino captures in Ar-40**
KARAKOÇ M., Zegers R. G. T., Brown B. A., Fujita Y., Adachi T., BOZTOSUN İ., Fujita H., Csatlos M., Deaven J. M., Guess C. J., et al.
PHYSICAL REVIEW C, vol.89, no.6, 2014 (SCI-Expanded)
- XLVI. **Role of the surface potential in explaining the Li-11+Si-28 system**
Un A., Kucuk Y., Caner T., Boztosun I.
PHYSICAL REVIEW C, vol.89, no.5, 2014 (SCI-Expanded)
- XLVII. **An Extended Analysis of the Elastic Scattering of Li-6(He-6, He-6)Li-6 system at 17.9 MeV**
Aygün M., BOZTOSUN İ.
FEW-BODY SYSTEMS, vol.55, no.3, pp.203-209, 2014 (SCI-Expanded)
- XLVIII. **Determination of gamma radioactivity levels and associated dose rates of soil samples of the Akkuyu/Mersin using high-resolution gamma-ray spectrometry**
ÖZMEN S. F., BOZTOSUN İ., YAVUZ M., TUNÇ M. R.
RADIATION PROTECTION DOSIMETRY, vol.158, no.4, pp.461-465, 2014 (SCI-Expanded)
- XLIX. **PARAMETRIZED FORM OF THE DYNAMIC POLARIZATION POTENTIAL FOR THE He-6+Pb-208 INTERACTION**
Aygün M., BOZTOSUN İ., Rusek K.
MODERN PHYSICS LETTERS A, vol.28, no.27, 2013 (SCI-Expanded)
- L. **Role of the cluster deformations in explaining the exotic decay half-lives**
Soylu A., SERT Y., BAYRAK O., BOZTOSUN İ.
EUROPEAN PHYSICAL JOURNAL A, vol.48, no.9, 2012 (SCI-Expanded)
- LI. **Effect of the velocity-dependent potentials on the energy eigenvalues of the Morse potential**
Soylu A., BAYRAK O., BOZTOSUN İ.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.10, no.4, pp.953-959, 2012 (SCI-Expanded)
- LII. **A study on the Fresnel diffraction of He-6 by means of different microscopic density distributions**
Aygün M., BOZTOSUN İ., ŞAHİN Y.
PHYSICS OF ATOMIC NUCLEI, vol.75, no.8, pp.963-968, 2012 (SCI-Expanded)
- LIII. **Bohr Hamiltonian with a finite well for triaxial nuclei**
İnci I., BOZTOSUN İ., Gonen Y. E.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.39, no.8, 2012 (SCI-Expanded)
- LIV. **RADIAL SENSITIVITY OF THE ELASTIC SCATTERING AROUND THE COULOMB BARRIER ENERGIES FOR**

WEAKLY-BOUND AND HALO NUCLEI

SERT Y., CANER T., BAYRAK O., BOZTOSUN İ.

MODERN PHYSICS LETTERS A, vol.27, no.21, 2012 (SCI-Expanded)

- LV. **Supersymmetric solution of Schrodinger equation by using the asymptotic iteration method**
KOÇAK G., BAYRAK O., BOZTOSUN İ.
ANNALEN DER PHYSIK, vol.524, no.6-7, pp.353-359, 2012 (SCI-Expanded)
- LVI. **Effect of nuclear deformation on alpha-decay half-lives**
ÇOBAN A. Y., BAYRAK O., Soylu A., BOZTOSUN İ.
PHYSICAL REVIEW C, vol.85, no.4, 2012 (SCI-Expanded)
- LVII. **Influence of long-range effects on low-energy cross sections of He and HeX: The lithium problem**
Dapo H., BOZTOSUN İ., KOÇAK G., Balantekin A. B.
PHYSICAL REVIEW C, vol.85, no.4, 2012 (SCI-Expanded)
- LVIII. **The energy eigenvalues of the Kratzer potential in the presence of a magnetic field**
Aygun M., BAYRAK O., BOZTOSUN İ., ŞAHİN Y.
EUROPEAN PHYSICAL JOURNAL D, vol.66, no.2, 2012 (SCI-Expanded)
- LIX. **Phase shift analysis of the He-6+Pb-208 and the He-6+Au-197 systems**
BAYRAK O., BOZTOSUN İ.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.10, no.1, pp.109-115, 2012 (SCI-Expanded)
- LX. **Electric quadrupole transitions of the Bohr Hamiltonian with the Morse potential**
Inci I., Bonatsos D., BOZTOSUN İ.
PHYSICAL REVIEW C, vol.84, no.2, 2011 (SCI-Expanded)
- LXI. **Effect of the Velocity-Dependent Potentials on the Bound State Energy Eigenvalues**
BAYRAK O., Soylu A., BOZTOSUN İ.
CHINESE PHYSICS LETTERS, vol.28, no.4, 2011 (SCI-Expanded)
- LXII. **Semiclassical description of the He-6+C-12 elastic scattering**
BAYRAK O., BOZTOSUN İ.
PHYSICS OF ATOMIC NUCLEI, vol.74, no.1, pp.13-18, 2011 (SCI-Expanded)
- LXIII. **Microscopic few-body and Gaussian-shaped density distributions for the analysis of the He-6 exotic nucleus with different target nuclei**
Aygun M., Kucuk Y., BOZTOSUN İ., Ibraheem A. A.
NUCLEAR PHYSICS A, vol.848, no.3-4, pp.245-259, 2010 (SCI-Expanded)
- LXIV. **The relativistic treatment of spin-0 particles under the rotating Morse oscillator**
BAYRAK O., Soylu A., BOZTOSUN İ.
JOURNAL OF MATHEMATICAL PHYSICS, vol.51, no.11, 2010 (SCI-Expanded)
- LXV. **EXAMINATION OF $V(r) = -z/r$ plus gr plus λr^2 POTENTIAL IN THE PRESENCE OF MAGNETIC FIELD**
Aygun M., ŞAHİN Y., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.19, no.7, pp.1349-1356, 2010 (SCI-Expanded)
- LXVI. **Effects of alpha-cluster potentials for the O-16+O-16 fusion reaction and S factor**
KOÇAK G., Karakoc M., BOZTOSUN İ., Balantekin A. B.
PHYSICAL REVIEW C, vol.81, no.2, 2010 (SCI-Expanded)
- LXVII. **Global optical potential for the elastic scattering of He-6 at low energies**
Kucuk Y., BOZTOSUN İ., Topel T.
PHYSICAL REVIEW C, vol.80, no.5, 2009 (SCI-Expanded)
- LXVIII. **Onset of nuclear structure effects in near-barrier elastic scattering of weakly bound nuclei: He-6 and Li-6 compared**
Kucuk Y., Boztosun I., Keeley N.
PHYSICAL REVIEW C, vol.79, no.6, 2009 (SCI-Expanded)
- LXIX. **Analytical solution of the Schrodinger equation for Makarov potential with any l angular momentum**
Bayrak O., Karakoc M., Boztosun I., Sever R.

- INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.11, pp.3005-3014, 2008 (SCI-Expanded)
- LXX. **The relativistic Duffin-Kemmer-Petiau sextic oscillator**
YAŞUK F., Karakoc M., Boztosun I.
PHYSICA SCRIPTA, vol.78, no.4, 2008 (SCI-Expanded)
- LXXI. **Exact solutions of Klein-Gordon equation with scalar and vector Rosen-Morse-type potentials**
Soylu A., BAYRAK O., Boztosun I.
CHINESE PHYSICS LETTERS, vol.25, no.8, pp.2754-2757, 2008 (SCI-Expanded)
- LXXII. **Exact solutions of Klein-Gordon equation with exponential scalar and vector potentials**
Taskin F., Boztosun I., BAYRAK O.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.6, pp.1612-1617, 2008 (SCI-Expanded)
- LXXIII. **Analytical solutions of the Bohr Hamiltonian with the Morse potential**
Boztosun I., Bonatsos D., Inci I.
PHYSICAL REVIEW C, vol.77, no.4, 2008 (SCI-Expanded)
- LXXIV. **kappa state solutions of the Dirac equation for the Eckart potential with pseudospin and spin symmetry**
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