

## Prof. Kutsal BOZKURT

### Personal Information

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### Biography

Kutsal Bozkurt currently works at the Department of Physics, Yildiz Technical University. He is working on Nuclear Structure Theory (Multipole excitations in nuclei, Low-energy strength, Finite temperature mean field theory, Hypernuclei structure, Nuclear matter, Neutron Star) and Nuclear Technology's & Applied Physics (Betavoltaic energy converters, Betavoltaic and Conductivity properties on InP/GaAs/GaN/SiC p-i-n diode, Nuclear battery, Nuclear imaging modeling, Charge transport in BB-12&Infantis).

### Education Information

Doctorate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Turkey 1999 - 2003

Postgraduate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Turkey 1996 - 1999

Undergraduate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Turkey 1990 - 1996

### Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Nuclear physics, Properties of Nuclei, Nuclear Structure, Natural Sciences

### Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2019 - Continues

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2019 - 2019

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2012 - 2019

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2018 - 2018

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2017 - 2017

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2016 - 2016

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2015 - 2015

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2014 - 2014

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2013 - 2013

Associate Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2012 - 2012

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2005 - 2012

Assistant Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2011 - 2011

Assistant Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2010 - 2010

Assistant Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2009 - 2009

Assistant Professor, Université Paris-Sud: Paris Xi, Institut De Physique Nucleaire, Physique Theorique, 2007 - 2007

Lecturer PhD, Universitaet Siegen, Detektorphysik Und Elektronik, Physik, 2003 - 2004

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2000 - 2003

Research Assistant, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Çevre Müh., 1997 - 2000

## Academic and Administrative Experience

Erasmus Coordinator, Yıldız Technical University, Faculty Of Arts & Science, Fizik, 2008 - 2020

Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Fizik, 2010 - 2015

Yıldız Teknik Üniversitesi, Fizik, 2006 - 2015

## Courses

Quantum Physics-1, Undergraduate, 2020 - 2021

QUANTUM MECHANICS II, Doctorate, 2020 - 2021

Quantum Physics 1, Undergraduate, 2019 - 2020

Nuclear Theory 1, Postgraduate, 2018 - 2019

Quantum Physics 2, Undergraduate, 2017 - 2018, 2018 - 2019

Technical English 1, Undergraduate, 2017 - 2018, 2018 - 2019

Quantum Mechanics 1, Postgraduate, 2018 - 2019

Physics 1, Undergraduate, 2017 - 2018

Physics 2, Undergraduate, 2017 - 2018

## Advising Theses

Bozkurt K., Ankaş A., Galaksimizdeki Serbest Elektron Dağılımı, Nötron Yıldızlarının Uzaklıkları ve Manyetik Alanları, Doctorate, P.Kütükçü(Student), Continues

Bozkurt K., Khan E., Nuclear Physics in Neutron Stars: Study of Superfluidity in Hypernuclei and Constraining the Nuclear-Cotutelle (Çift Diploma Programı), Doctorate, H.Zahid(Student), 2020

Bozkurt K., Khan E., Nuclear Physics in Neutron Stars: Study of Superfluidity in Hypernuclei and Constraining the Nuclear, Doctorate, H.Zahid(Student), 2020

Bozkurt K., Ortalama Alan Teorisi ile Hiperçekirdeklerin Temel Durum ve Uyarılmış Durumlarının İncelenmesi, Postgraduate, E.Akpınar(Student), 2020

Bozkurt K., Hartree-Fock-Bogoliubov Yöntemi ile egzotik çekirdeklerde Sihirliliğin İncelenmesi, Postgraduate, F.Ok(Student), 2018

Bozkurt K., Özdemir O., Metal-Organik Kimyasal Buharlaştırma Tekniği ile Büyütülmüş Uzun Dalgaboylu Lazer Yapıların Elektriksel Özelliklerinin İncelenmesi, Doctorate, N.Ayarcı(Student), 2017

Bozkurt K., Khan E., Mean Field Description of Finite Nuclei Under Extreme Conditions of Isospin and Temperature, Doctorate, E.Yüksel(Student), 2015

BOZKURT K., AKÇALI Ö., Çevre Örneklerinde Nötron Aktivasyon Yöntemi ile Eser Ağır Metal Ölçümleri, Postgraduate, D.Soya(Student), 2014

BOZKURT K., Hafif, orta ve ağır çekirdeklerde spin-yörünge yarılmalarının ve proton enerji aralıklarının tensör katkısı ile değişiminin incelenmesi, Postgraduate, Ç.Gök(Student), 2014

BOZKURT K., Nötron bakımından zengin atom çekirdeklerinde dev çoklu rezonansların incelenmesi, Postgraduate, E.Çınar(Student), 2013

BOZKURT K., İzole nötron yıldızlarının T-tSNR yas uyumsuzluğu problemine bağlı evrimi, Postgraduate, P.Kütükçü(Student), 2012

Bozkurt K., Nötron bakımından zengin hafif ve ağır atom çekirdeklerinde skyrme etkilesmesini kullanarak küçüme dipol rezonansların incelenmesi, Postgraduate, E.Yüksel(Student), 2011

Bozkurt K., Landau parametrelerinin nükleer madde ve nötron madde için hesaplanması, Postgraduate, S.Boy(Student), 2010

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Enhancement of Ni-63 planar source efficiency for betavoltaic batteries**  
Belghachi A., Bozkurt K., Özdemir O., Avci Ö.  
Journal Of Physics D-Applied Physics, vol.445501, no.53, pp.1-10, 2020 (Journal Indexed in SCI)
- II. **Multimessenger and multiphysics Bayesian inference for the GW170817 binary neutron star merger**  
Güven H. Z. , Bozkurt K., Khan E., Margueron J.  
PHYSICAL REVIEW C, vol.1, no.102, pp.1-18, 2020 (Journal Indexed in SCI)
- III. **A model for Ni-63 source for betavoltaic application**  
Belghachi A., Bozkurt K., Moughli H., Özdemir O., Amiri B., Talhi A.  
Acta Physica Polonica A, vol.137, no.3, pp.324-331, 2020 (Journal Indexed in SCI)
- IV. **Transport and storage dynamics of 30% In-rich InGaN/GaN MQW LED p-i-n structure**  
Özdemir O., Bozkurt K., Kuruoglu N. A. , Baş H., Alshehri B., Dogheche K., Gaimard Q., Ramdane A., Dogheche E.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, 2019 (Journal Indexed in SCI)
- V. **Impact of trap states on inductive phenomena in 30% InGaN/GaN MOW LED devices**  
BOZKURT K., ÖZDEMİR O., KURUOĞLU N., ALSHEHRI B., DOGHECHE K., Gaimard Q., Ramdane A., DOGHECHE E.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, no.10, 2019 (Journal Indexed in SCI)
- VI. **Lambda Lambda pairing in multistrange hypernuclei**  
Güven H., BOZKURT K., Khan E., Margueron J.  
PHYSICAL REVIEW C, vol.98, no.1, 2018 (Journal Indexed in SCI)
- VII. **Dc and ac electrical response of MOCVD grown GaN in p-i-n structure, assessed through I-V and admittance measurement**  
Kuruoglu N., ÖZDEMİR O., BOZKURT K., Sundaram S., Salvestrini J., Ougazzaden A., Gaimard Q., BELAHSENE S., Merghem K., RAMDANE A.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.50, no.50, 2017 (Journal Indexed in SCI)
- VIII. **Betavoltaic study of a GaN p-i-n structure grown by metal-organic vapour phase epitaxy with a Ni-63 source**  
Kuruoglu N., ÖZDEMİR O., BOZKURT K.  
THIN SOLID FILMS, vol.636, pp.746-750, 2017 (Journal Indexed in SCI)
- IX. **Multipole excitations in hot nuclei within the finite temperature quasiparticle random phase approximation framework**  
YÜKSEL E., COLO G., KHAN E., NIU Y. F. , BOZKURT K.  
PHYSICAL REVIEW C, vol.96, no.2, 2017 (Journal Indexed in SCI)
- X. **Simultaneous Determination of Electron and Hole Mobilities in InP/InGaAsP/InAs/InP Laser Heterostructure by Admittance Spectroscopy**  
Kuruoglu N., ÖZDEMİR O., BOZKURT K., BELAHSENE S., MARTINEZ A., RAMDANE A.  
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.64, no.7, pp.2881-2885, 2017 (Journal Indexed in SCI)
- XI. **Discrimination of Carrier Conduction Mechanisms of InP/InGaAsP/InAs/InP Laser Structure Through J-V-T Measurements**  
Ayarci N., ÖZDEMİR O., BOZKURT K., RAMDANE A., BELAHSENE S., MARTINEZ A.  
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.63, no.5, pp.1866-1870, 2016 (Journal Indexed in SCI)
- XII. **Effect of temperature on the effective mass and the neutron skin of nuclei**  
Yüksel E., Khan E., Bozkurt K., Colo G.  
EUROPEAN PHYSICAL JOURNAL A, vol.50, 2014 (Journal Indexed in SCI)
- XIII. **Effects of the tensor force on the ground state and first 2(+) states of the magic Ca-54 nucleus**  
Yüksel E., Van Giai N., Khan E., Bozkurt K.  
PHYSICAL REVIEW C, vol.89, 2014 (Journal Indexed in SCI)
- XIV. **DETAILED INVESTIGATION OF THE TENSOR FORCE ON THE EVALUATION OF THE SINGLE PARTICLE LEVELS OF Z=28 AND Z=82 NUCLEI**  
Yüksel E., Gök Ç., Bozkurt K.  
MODERN PHYSICS LETTERS A, vol.28, 2013 (Journal Indexed in SCI)

- XV. **The soft Giant Monopole Resonance as a probe of the spin-orbit splitting**  
Yüksel E., Khan E., Bozkurt K.  
EUROPEAN PHYSICAL JOURNAL A, vol.49, 2013 (Journal Indexed in SCI)
- XVI. **Tensor Effects in Dipole Excitations at Finite Temperature**  
Yüksel E., Bozkurt K.  
ACTA PHYSICA POLONICA A, vol.123, pp.320-322, 2013 (Journal Indexed in SCI)
- XVII. **Analysis of the neutron and proton contributions to the pygmy dipole mode in doubly magic nuclei**  
Yüksel E., Khan E., Bozkurt K.  
NUCLEAR PHYSICS A, vol.877, pp.35-50, 2012 (Journal Indexed in SCI)
- XVIII. **TENSOR EFFECTS IN PYGMY DIPOLE EXCITATION**  
YÜKSEL E., BOZKURT K.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.20, no.10, pp.2143-2151, 2011  
(Journal Indexed in SCI)
- XIX. **ISOVECTOR PYGMY DIPOLE EXCITATION IN NEUTRON-RICH NUCLEI**  
BOZKURT K.  
MODERN PHYSICS LETTERS A, vol.25, no.34, pp.2905-2913, 2010 (Journal Indexed in SCI)
- XX. **Pygmy and Giant Dipole Response Function in Neutron Rich Nuclei at Finite Temperature**  
BOZKURT K., Sirin M.  
AIP Conference Proceeding, vol.1203, 2010 (Journal Indexed in SCI)
- XXI. **PYGMY DIPOLE RESONANCE AND TWO NEUTRON SEPARATION ENERGIES IN SOFT AND HEAVY NUCLEI**  
BOZKURT K.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.19, no.7, pp.1371-1381, 2010 (Journal Indexed in SCI)
- XXII. **Dipole Response Function of Nuclear Matter with Pairing Correlations**  
BOZKURT K.  
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.77, no.10, 2008 (Journal Indexed in SCI)
- XXIII. **Isovector response of nuclear matter at finite temperature**  
Ayik S., BOZKURT K., Gokalp A., YILMAZ O.  
ACTA PHYSICA POLONICA B, vol.39, no.6, pp.1413-1427, 2008 (Journal Indexed in SCI)
- XXIV. **Isovector collective response function of nuclear matter at finite temperature**  
Bozkurt K.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS E, vol.13, no.5, pp.949-959, 2004 (Journal Indexed in SCI)
- XXV. **Collisional effects in isovector response function of nuclear matter at finite temperature**  
Ayik S., Gokalp A., Yilmaz O., BOZKURT K.  
ACTA PHYSICA POLONICA B, vol.34, no.8, pp.4229-4239, 2003 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Charge Transport in Bifidobacterium animalis subsp.lactis BB-12 under Various Atmospheres**  
Bozkurt K., Denктаş C., Özdemir O., Altındal A., Avdan Z., Bozkurt H. S.  
Open Journal of Applied Sciences, vol.9, pp.506-514, 2019 (Refereed Journals of Other Institutions)
- II. **Investigation of Carrier Conduction Mechanism over InAs/InP Quantum Dashes and InAs/GaAs Quantum Dots Based p-i-n Laser Heterostructures**  
Ayarcı Kuruoğlu N., Özdemir O., Bozkurt K.  
Journal of Materials Science and Chemical Engineering, pp.1-9, 2017 (Refereed Journals of Other Institutions)
- III. **Electroluminescence Study of InP/InGaAsP/InAs/InP p-i-n Laser Heterostructure**  
BOZKURT K.  
Sigma Journal of Engineering and Natural Sciences, vol.34, no.2, 2016 (Refereed Journals of Other Institutions)
- IV. **Isovector Giant Dipole Excitations in Hot Nuclear Matter**

## Refereed Congress / Symposium Publications in Proceedings

- I. **Free Electron Density in the Galaxy, Distances of Neutron Stars**  
KÜTÜKÇÜ P., ANKAY A., BOZKURT K.  
TURKISH PHYSICAL SOCIETY 36TH INTERNATIONAL PHYSICS CONGRESS, 1 - 05 September 2020
- II. **Charmed Nuclei with Mean Field Approach**  
GÜVEN H. Z. , BOZKURT K., KHAN E., MARGUERON J.  
Turkish Physical Society 36th International Physics Congress (TPS-36), 1 - 05 September 2020
- III. **Constraining the Nuclear Equation of State by Tidal Deformability:Correlations between the Empirical Parameters**  
BOZKURT K., GÜVEN H. Z. , KHAN E., MARGUERON J.  
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- IV. **A Mathematical Model of Ni-63 Source for Betavoltaic Applications**  
BOZKURT K., BELGHACHI A., MOUGHLI H., ÖZDEMİR O., AMIRI B., TALHI A.  
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- V. **Effect of Bulk Trap in GaN Barrier Layer on the Electroluminescence Spectral Properties of InGaN/GaN Multiple Quantum Well LED Device**  
ÖZDEMİR O., BOZKURT K., AYARCI N., BAŞ H., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.  
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- VI. **The Ground State properties of Multi-Strange Hypernuclei within the Hartree-Fock Method**  
AKPINAR E., GÜVEN H. Z. , BOZKURT K.  
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- VII. **ELECTROLUMINESCENCE (EL) STUDY OF 10 INGAN/GAN MQW LED DEVICES**  
BAŞ H., ÖZDEMİR O., AYARCI N., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.  
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- VIII. **Constraining the Nuclear Equation of State by Tidal Deformability:Empirical Parameters**  
GÜVEN H. Z. , BOZKURT K., KHAN E., MARGUERON J.  
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- IX. **Electro-Optical Analysis of 30 InGaN/GaN MQW LED Devices**  
BOZKURT K., ÖZDEMİR O., AYARCI N., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.  
10th International Conference on Materials for Advanced Technologies (ICMAT-2019), 23 - 28 June 2019
- X. **Determination of Conduction Path in InGaN/GaN MQW LED by Current-Voltage and Admittance Measurements**  
ÖZDEMİR O., AYARCI KURUOĞLU N., BOZKURT K., BAŞ H., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.  
Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XI. **Pairing Correlations in Multi-Strange Hypernuclei with the Hartree-Fock-Bogoliubov (HFB) Method**  
BOZKURT K., Zahid Güven H., Khan E., Margueron J.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 04 September 2018, pp.532
- XII. **Gravitational Wave Constrictions to the Nuclear Equation of State**  
Zahid Güven H., BOZKURT K., Khan E., Margueron J.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 04 September 2018, pp.60
- XIII. **Light Emission Bands of InGaN/GaN MQW based LED in P-I-N Structures**  
BAŞ H., ÖZDEMİR O., AYARCI KURUOĞLU N., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.

Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018

- XIV. **Simultaneous Determination of Electron and Hole Mobility in InGaN/GaN Multi Quantum Well LED Through AC Admittance Spectroscopy**  
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.  
Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XV. **Luminescence Properties of In-Rich InGaN/GaN Multiple Quantum Wells Light Emitting Diodes**  
BOZKURT K., ÖZDEMİR O., AYARCI KURUOĞLU N., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.  
Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XVI. **Exploring the magicity for the 78Ni nucleus**  
OK F., Guven H. Z. , BOZKURT K., YÜKSEL E.  
Theoretical and Experimental Studies in Nuclear Applications and Technology- TESNAT 2018, Antalya, Turkey, 20 April 2018
- XVII. **Investigation of Magicity for Z=16 Isotopes and N=12 Isotones with Skyrme-Hartree-Fock-Bogoliubov Approach**  
OK F., GUVEN H. Z. , BOZKURT K.  
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
- XVIII. **Effect of Ni-63 Radiations on MBE Grown GaN in p-i-n Structure by Admittance Spectroscopy**  
BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O., Belahsene S., Martinez A., Ramdane A.  
XL BRAZILIAN MEETING ON NUCLEAR PHYSICS, Sao Paulo, Brazil, 03 September 2017, pp.1
- XIX. **Detailed investigation of the tensor force on the evaluation of magicity for the Si isotopes, N=20 and N=28 isotones with Skyrme-Hartree-Fock-Bogoliubov calculations**  
GÜVEN H. Z. , OK F., YÜKSEL E., BOZKURT K.  
Theoretical and Experimental Studies in Nuclear Applications and Technology, TESNAT 2017, Adana, Turkey, 10 May 2017, pp.46
- XX. **Lamda-Lamda Çiftlenim Etkileşimi ile Lamda Hiper Çekirdeklerinin Skyrme Ortalama Alan Hesaplamaları**  
BOZKURT K.  
İSTANBUL YÜKSEK ENERJİ FİZİĞİ ÇALIŞTAYI 2017, İstanbul, Turkey, 6 - 07 May 2017
- XXI. **MBE Tekniği ile Büyütülmüş p i n GaN Yapıdaki Ni 63 Radyasyon Etkisinin Empedans Spektroskopisiyle İncelenmesi**  
BOZKURT K., AYARCI N., ÖZDEMİR O.  
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Turkey, 12 - 14 October 2016
- XXII. **Effect of the temperature on the dipole and quadrupole excitations in nuclei**  
YÜKSEL E., COLO G., KHAN E., Yifei N., BOZKURT K.  
XXIII Nuclear Physics Workshop, 27 September - 02 October 2016
- XXIII. **Betavoltaic study on GaN p-i-n diode with Ni-63 source**  
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.  
Science and Applications of Thin Films, Congress & Exhibition - SATF 2016, İzmir, Turkey, 19 September 2016
- XXIV. **Theoretical Study on the Properties of Z 20 and Z 48 Isotopic Chain**  
OK F., YÜKSEL E., BOZKURT K.  
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, 6 - 09 September 2016
- XXV. **Theoretical study on the properties of Z=20 and Z=48 isotopic chains**  
Ok F., Yüksel E., Bozkurt K.  
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XXVI. **Exploration of magicity for Z=120 isotopes using the Skyrme Hartree Fock Bogoulibov Approximation**  
Güven H. Z. , Bozkurt K., Yüksel E.  
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XXVII. **Electroluminescence study of MBE (Molecular Beam Epitaxy) grown InP/InGaN/InAs/InP p-i-n**

**laser heterostructure**

BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O.

Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 06 September 2016

- XXVIII. **Negative capacitance in InP/InGaAsP/InP quantum dashes assessed through dc and ac electrical measurements.**

AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K.

Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 06 September 2016

- XXIX. **Exploration of magicity for Z=120 isotopes using the Skyrme Hartree Fock Bogoulibov Approximation**

Yüksel E., BOZKURT K.

Turkish Physical Society 32nd International Physics Congress, 01 September 2016

- XXX. **Theoretical study on the properties of Z=20 and Z=48 isotopic chains**

Yüksel E., BOZKURT K.

Turkish Physical Society 32nd International Physics Congress, 01 September 2016

- XXXI. **Transport Mechanisms of InAs/InP Quantum Dashes and InAs/GaAs Quantum Dots Based p-i-n Laser Heterostructure**

AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K.

2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 16 May 2016

- XXXII. **Photo-voltaic Properties and Carrier Conduction Mechanisms of InP/InGaAsP/InP Quantum Well Through J-V-T Measurements**

AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.

SOLAR-TR3, Ankara, Turkey, 27 April 2016

- XXXIII. **Evolution of multipole response in nuclei at finite temperature Collective Motion in Nuclei under Extreme Conditions**

YÜKSEL E., Elias K., Gianluca C., BOZKURT K.

Collective Motion in Nuclei under Extreme Conditions, COMEX-5, Krakow, Poland, 13 - 15 September 2015

- XXXIV. **Evolution of multipole response in nuclei at finite temperature**

Khan E., Colo G., BOZKURT K.

Collective Motion in Nuclei under Extreme Conditions (COMEX5), 01 September 2015

- XXXV. **Betavoltaic Study on GaN p-i-n Diode**

Özdemir O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.

XXI International School on Nuclear Physics, Neutron Physics and Applications, 01 September 2015

- XXXVI. **Low energy modes in Atomic nuclei**

YÜKSEL E., Elias K., BOZKURT K.

VII. International Workshop on Nuclear Structure Properties, Sinop, Turkey, 29 - 31 October 2014

- XXXVII. **Low energy modes in Atomic nuclei.**

Khan E., BOZKURT K.

VII. International Workshop on Nuclear Structure Properties, 01 October 2014

- XXXVIII. **Tensor and Temperature effects on the nuclear properties**

YÜKSEL E., Khan E., BOZKURT K., Van Giai N., Colo G.

NUBA Conference Series-1 Nuclear Physics and Astrophysics, Antalya, Turkey, 14 - 21 September 2014

- XXXIX. **Tensor and Temperature effects on the nuclear properties**

Khan E., BOZKURT K., Giai N. V. , Colo G.

NUBA Conference Series-1 Nuclear Physics and Astrophysics., 01 September 2014

- XL. **Investigation of the neutron skin thickness via low-energy modes of nuclei**

Bozkurt K., Yüksel E.

International Advances in Applied Physics and Materials Science Congress (APMAS), Muğla, Turkey, 24 - 27 April 2014, pp.1

- XLI. **Pairing properties of hot nuclei within the finite temperature Hartree Fock plus BCS approximation**

YÜKSEL E., Khan E., BOZKURT K.

20th International School on Nuclear Physics, Neutron Physics and Applications, Varna, Bulgaria, 16 - 22 September 2013, vol.533

- XLII. **Effect of tensor interaction on the ground state properties of light medium and heavy nuclei**  
Gök Ç., YÜKSEL E., BOZKURT K.  
XX International School on Nuclear Physics, Neutron Physics and Applications. Varna-Bulgaristan., 15 - 20 September 2013
- XLIII. **Effect of tensor interaction on the ground state properties of light, medium and heavy nuclei**  
Gök Ç., BOZKURT K.  
XX International School on Nuclear Physics, Neutron Physics and Applications, 01 September 2013
- XLIV. **Investigation of Bubble nuclei**  
YÜKSEL E., BOZKURT K.  
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## Supported Projects

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AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, %30 In katkılı InxGa1xN/GaN çoklu kuantum kuyuların optoelektronik özelliklerinin incelenmesi, 2018 - 2019

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Yetkin T., Bozkurt K., Durusoy A., Akçalı Ö., Erduran M. N. , Özok F., Zengin A. T. , Akbeniz Ş., TUBITAK Project, Gama Kamerası Modernizasyonu İçin Yöntem Geliştirilmesi ve Deneysel Uygulaması, 2017 - 2019

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BOZKURT K., Project Supported by Higher Education Institutions, Radyasyonun Güneş Pilleri Üzerindeki Etkisinin İncelenmesi ve Nükleer Piller, 2015 - 2018

Bozkurt K., Khan E., TUBITAK Project, Nükleer Uyarılmaların Farklı İzospin ve Sıcaklık Koşulları Altında Çalışılması, 2015 - 2017

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BOZKURT K., Project Supported by Other Official Institutions, CERN-Büyük Hadron Çarpıştırıcısı (LHC) Deneylelerinden Alice de 14TeV Kütle Merkezi Enerjili Proton-Proton Çarpışmalarında Acayip Parçacık Üretiminin İncelenmesi, 2008 - 2010

BOZKURT K., GÜLAL V. E. , CAN Z., Other Supported Projects, Konum Belirlenmesinde Önemli Bir Rol Oynayan GPS Sinyallerinin İyonosferle Etkileşimi, 2007 - 2009

Bozkurt K., Gai N. V. , Other Supported Projects, Quasiparticle Random Phase Approximation (QRPA) in Coordinate Space, Institut de Physique Nucleaire-Paris SUD XI, FRANSA, 2007 - 2008

Bozkurt K., Walenta A. H. , Other Supported Projects, Angiography, Universitat Siegen, ALMANYA, 2003 - 2004

## Scientific Refereeing

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, September 2017

Turkish Journal of Physics, Other Indexed Journal, May 2017

IOP , Other Indexed Journal, September 2016

Chinese Physics Letters, SCI Journal, April 2011

## Tasks In Event Organizations

Bozkurt K., Akkuş B., TFD 33. Uluslararası Fizik Kongresi, Scientific Congress, Turkey, Eylül 2017

Bozkurt K., Yetkin T., YEFIST 2017, Scientific Congress, İstanbul, Turkey, Mayıs 2017

Yüksel E., Bozkurt K., Ayarçı Kuruoğlu N., Workshop on Nuclear Structure, Astrophysics and Reactions, Scientific Congress, İstanbul, Turkey, Mayıs 2014

Bozkurt K., Yılmaz O., Advances in Heavy-Ion Physics, Scientific Congress, İstanbul, Turkey, Haziran 2012

## Scientific Research / Working Group Memberships

Lmsm, Université Polytechnique Hauts-de-France, Fransa, <http://fedmecalille.univ-lille.fr/unites/institut-deelectronique-de-microelectronique-et-de-nanotechnologie-iemn-umr-8520>, 2016 - Continues

Centre For Nanoscience And Nanotechnology, Université Paris-Sud: Paris XI, Fransa, <https://www.c2n.universite-paris-saclay.fr/en/>, 2012 - Continues

Institut de Physique Nucleaire, Université Paris-Sud: Paris XI, Fransa, <https://ipnwww.in2p3.fr/Theory,64>, 2009 - Continues

## Mobility Activity

Other, Scientific Research, Université Paris-Sud: Paris XI, France, 2019 - 2019

Post Doc, Post Doc, Université Paris-Sud: Paris XI, France, 2014 - 2014

Erasmus Programme, Lecturing, Universitaet Duisburg Essen, Germany, 2013 - 2013

Post Doc, Post Doc, Université Paris-Sud: Paris XI, France, 2007 - 2007

Post Doc, Post Doc, Universitaet Siegen, Germany, 2003 - 2004

## Edit Congress and Symposium Activities

Turkish Physical Society 35th International Physics Congress, Working Group, Muğla, Turkey, 2019

Turkish Physical Society 34th International Physics Congress, Attendee, Muğla, Turkey, 2018

XL BRAZILIAN MEETING ON NUCLEAR PHYSICS, Invited Speaker, Sao-Paulo, Brazil, 2017

XL Brazilian Meeting on Nuclear Physics, Attendee, São Paulo, Brazil, 2017

3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Attendee, Adana, Turkey, 2017

Turkish Physical Society 32th International Physics Congress, Attendee, Muğla, Turkey, 2016

XXI International School on Nuclear Physics, Neutron Physics and Applications, Attendee, Varna, Bulgaria, 2015

SOLAR-TR3, Attendee, Ankara, Turkey, 2015

VII. International Workshop on Nuclear Structure Properties, Attendee, Sinop, Turkey, 2014

NUBA Conference Series-1 Nuclear Physics and Astrophysics, Attendee, Antalya, Turkey, 2014

Applied Physics and Material Science Congress APMAS-2014, Attendee, Antalya, Turkey, 2014

XX International School on Nuclear Physics, Neutron Physics and Applications, Attendee, Varna, Bulgaria, 2013

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Collective Motion in Nuclei under Extreme Conditions (COMEX4), Attendee, Tôkyô, Japan, 2012  
Solar New Energy Conference SUNEK-2012, Attendee, Palermo, Italy, 2012  
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XXIX International Union of Radio Science, Attendee, Michigan, United States Of America, 2008  
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