

## Asst. Prof. Aslı KUŞOĞLU

### Personal Information

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### International Researcher IDs

ScholarID: -gKmkGQAAAAJ

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Publons / Web Of Science ResearcherID: AAC-5783-2020

ScopusID: 37098905200

Yoksis Researcher ID: 175746

### Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, Turkey 2010 - 2016

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, Turkey 2006 - 2010

Undergraduate Double Major, Istanbul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2003 - 2007

Undergraduate, Istanbul University, Faculty Of Science, Fizik, Turkey 2002 - 2006

### Foreign Languages

French, A1 Beginner

English, C1 Advanced

### Certificates, Courses and Trainings

Security, Risque Radioprotection, Centre national de la recherche scientifique(CNRS), 2013

Occupational Health and Safety, Tronc commun, Centre national de la recherche scientifique(CNRS), 2013

Foreign Language, FRANCAIS LANGUE ETRANGERE - cours extensifs niveau grand débutant, Centre national de la recherche scientifique(CNRS), 2012

Foreign Language, COURS de FRANCAIS pour ADULTES ETRANGERS, A.L.F.A.P., 2012

Foreign Language, Genel İngilizce, DILKO English, 2011

### Dissertations

Doctorate, Egzotik Çekirdeklerde Uyarılmış Seviye Ömürleri ve Nükleer Momentler, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı/Nükleer Fizik, 2016

Postgraduate, Spin-Yörünge Potansiyelinin Valans Nükleon Sayısı ile Değişimi, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, 2010

## Research Areas

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

## Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2020 - Continues  
Research Assistant PhD, Istanbul University, Faculty of Science, Department of Physics, 2016 - 2020  
Other, Horia Hulubei National Institute of Physics and Nuclear Engineering, Extreme Light Infrastructure-Nuclear Physics, High-Brilliance Gamma Beam, 2016 - 2017  
Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2008 - 2016  
Student, Université Paris-Sud: Paris XI, Centre De Sciences Nucléaires Et De Sciences De La Matière, Structure De Noyau, 2012 - 2013

## Academic and Administrative Experience

### Courses

Experimental Nuclear Physics, Postgraduate, 2021 - 2022  
General Physics II, Undergraduate, 2020 - 2021  
Statistical Methods In Physics, Undergraduate, 2020 - 2021  
Physics Laboratory II - Electricity and Magnetism, Undergraduate, 2021 - 2022  
General Physics I, Undergraduate, 2021 - 2022  
İleri Fizik Uygulamaları I, Undergraduate, 2021 - 2022  
General Physics I, Undergraduate, 2020 - 2021  
İleri Fizik Uygulamaları I, Undergraduate, 2020 - 2021  
Algorithm and Introduction to Computer Programming, Undergraduate, 2020 - 2021  
Fizik II Lab., Undergraduate, 2019 - 2020, 2014 - 2015  
Computer III, Undergraduate, 2019 - 2020  
Quantum Physics II, Undergraduate, 2018 - 2019  
Fizik III Lab., Undergraduate, 2018 - 2019, 2017 - 2018  
Calculus I (Application), Undergraduate, 2019 - 2020  
Calculus II (Application), Undergraduate, 2018 - 2019  
Bilgisayar Programlama II (Application), Undergraduate, 2018 - 2019  
Calculus I (Application), Undergraduate, 2019 - 2020  
Fizikte Matematik Metotlar (Uygulama), Undergraduate, 2018 - 2019  
Fizik I (Uygulama), Undergraduate, 2018 - 2019  
Fizik I Lab., Undergraduate, 2017 - 2018, 2013 - 2014  
Veri Tabanı Uygulamaları, Undergraduate, 2017 - 2018, 2014 - 2015  
Fizik I (Uygulama), Undergraduate, 2018 - 2019, 2015 - 2016  
Klasik Teorik Mekanik (Uygulama), Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015  
Analiz II (Uygulama), Undergraduate, 2017 - 2018  
Kuantum Fiziği I (Uygulama), Undergraduate, 2017 - 2018, 2011 - 2012  
Fizik II (Uygulama), Undergraduate, 2015 - 2016  
Fizik III Laboratuvarı, Undergraduate, 2015 - 2016  
Elektronik I Lab., Undergraduate, 2015 - 2016, 2014 - 2015, 2008 - 2009  
Klasik Teorik Mekanik (Uygulama) (İ.Ö.), Undergraduate, 2015 - 2016, 2014 - 2015

Çekirdek Fiziği Uygulamaları, Undergraduate, 2014 - 2015, 2013 - 2014  
Fizik II Uygulama (İ.Ö.), Undergraduate, 2011 - 2012  
Atom ve Molekül Fiziği Lab., Undergraduate, 2011 - 2012  
Fizik I Lab, Undergraduate, 2011 - 2012  
Fizik III Lab., Undergraduate, 2011 - 2012  
Kuantum Fiziği I Uygulama (İ.Ö.), Undergraduate, 2011 - 2012  
Bilgisayar Programlama II Uygulamaları, Undergraduate, 2010 - 2011  
Çekirdek Fiziği Uygulamaları, Undergraduate, 2010 - 2011, 2009 - 2010  
Bilgisayar Programlama II (Uygulama), Undergraduate, 2009 - 2010, 2008 - 2009  
Bilgisayar Programlama I (Uygulama), Undergraduate, 2010 - 2011, 2009 - 2010  
Radyasyon ve Sağlık Fiziği Uygulama, Undergraduate, 2009 - 2010  
Fizik II Lab., Undergraduate, 2010 - 2011  
Genel Fizik Lab., Undergraduate, 2009 - 2010

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **High-Precision Spectroscopy of  $^{20}\text{O}$  Benchmarking *Ab Initio* Calculations in Light Nuclei**  
Zanon I., Clément E., Goasduff A., Menéndez J., Miyagi T., Assié M., Ciemala M., Flavigny F., Lemasson A., Matta A., et al.  
PHYSICAL REVIEW LETTERS, vol.131, no.26, 2023 (SCI-Expanded)
- II. **A setup for high-energy  $\gamma$ -ray spectroscopy with the ELI-NP large-volume  $\text{LaBr}_3\text{:Ce}$  and  $\text{CeBr}_3$  detectors at the 9 MV Tandem accelerator at IFIN-HH**  
Aogaki S., Balabanski D. L., Borcea R., Constantin P., Costache C., Cuciuc M., KUŞOĞLU A., Mihai C., Mihai R. E., Stan L., et al.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.1056, 2023 (SCI-Expanded)
- III. **PANDORA Project for the study of photonuclear reactions below  $A=60$**   
Tamii A., Pellegri L., Soderstrom P. -, Allard D., Goriely S., Inakura T., Khan E., Kido E., Kimura M., Litvinova E., et al.  
EUROPEAN PHYSICAL JOURNAL A, vol.59, no.9, 2023 (SCI-Expanded)
- IV. **Prospect for measurements of  $(\langle i \rangle?, \langle i \rangle, n)$  reaction cross-sections of  $\langle i \rangle p \langle /i \rangle$ -nuclei at ELI-NP**  
Soderstrom P. -, Kusoglu A., Testov D.  
FRONTIERS IN ASTRONOMY AND SPACE SCIENCES, 2023 (SCI-Expanded)
- V. **First in-beam experiment with the ELIADe detectors: a spectroscopic study of  $\text{La-130}$**   
Capponi L., Kusoglu A., Soderstrom P., Balabanski D. L., Turturica G., Bocchi G., Chesnevskaya S., Dhal A., Dinescu D., Djourelou N., et al.  
JOURNAL OF INSTRUMENTATION, vol.16, no.12, 2021 (SCI-Expanded)
- VI. **Comment on "g Factor of the  $\text{Zr-99}(7/2(+))$  Isomer: Monopole Evolution in the Shape-Coexisting Region" Reply**  
Boulay F., Simpson G. S., Ichikawa Y., Kisyov S., Bucurescu D., Takamine A., Ahn D. S., Asahi K., Baba H., Balabanski D. L., et al.  
PHYSICAL REVIEW LETTERS, vol.127, no.16, 2021 (SCI-Expanded)
- VII. **g Factor of the  $\text{Zr-99}(7/2(+))$  Isomer: Monopole Evolution in the Shape-Coexisting Region**  
Boulay F., Simpson G. S., Ichikawa Y., Kisyov S., Bucurescu D., Takamine A., Ahn D. S., Asahi K., Baba H., Balabanski D. L., et al.  
PHYSICAL REVIEW LETTERS, vol.124, no.11, 2020 (SCI-Expanded)
- VIII. **Evidence of octupole-phonons at high spin in  $\text{Pb-207}$**   
Ralet D., CLEMENT E., Georgiev G., Stuchbery A. E., REJMUND M., VAN ISACKER R., DE FRANCE G., LEMASSON A., Ljungvall J., Michelagnoli C., et al.  
PHYSICS LETTERS B, vol.797, 2019 (SCI-Expanded)

- IX. **B(E2) anomalies in the yrast band of Os-170**  
Goasduff A., Ljungvall J., RODRIGUEZ T. R., GARROTE F. L. B., ETILE A., Georgiev G., GIACOPPO F., Grente L., KLINTEFJORD M., Kusoglu A., et al.  
PHYSICAL REVIEW C, vol.100, no.3, 2019 (SCI-Expanded)
- X. **Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the N=82 shell closure**  
VAQUERO V., JUNGCLAUS A., RODRIGUEZ-SANCHEZ J. L., Tostevin J. A., DOORNENBAL R., WIMMER K., CHEN S., NACHER E., SAHIN E., SHIGA Y., et al.  
PHYSICS LETTERS B, vol.795, pp.356-361, 2019 (SCI-Expanded)
- XI. **Interplay between nuclear shell evolution and shape deformation revealed by the magnetic moment of Cu-75**  
ICHIKAWA Y., NISHIBATA H., Tsunoda Y., Takamine A., Imamura K., Fujita T., Sato T., Momiyama S., Shimizu Y., AHN D. S., et al.  
NATURE PHYSICS, vol.15, no.4, pp.321-327, 2019 (SCI-Expanded)
- XII. **In-beam gamma-ray spectroscopy of Te-136 at relativistic energies**  
VAQUERO V., JUNGCLAUS A., DOORNENBAL P., WIMMER K., MORO A. M., Ogata K., FURUMOTO T., CHEN S., NACHER E., SAHIN E., et al.  
PHYSICAL REVIEW C, vol.99, no.3, 2019 (SCI-Expanded)
- XIII. **HIGH-RESOLUTION GAMMA-RAY SPECTROSCOPY WITH ELIADE AT THE EXTREME LIGHT INFRASTRUCTURE**  
SODERSTROM P., Suliman G., UR C. A., BALABANSKI D., BECK T., Capponi L., Dhal A., IANCU V., Ilie S., IOVEA M., et al.  
ACTA PHYSICA POLONICA B, vol.50, no.3, pp.329-338, 2019 (SCI-Expanded)
- XIV. **In-beam gamma-ray spectroscopy of the neutron-rich platinum isotope Pt-200 toward the N=126 shell gap**  
John P. R., Valiente-Dobon J. J., Mengoni D., Modamio V., Lunardi S., Bazzacco D., Gadea A., Wheldon C., Rodriguez T. R., Alexander T., et al.  
PHYSICAL REVIEW C, vol.95, no.6, 2017 (SCI-Expanded)
- XV. **Gamma Decay of Unbound Neutron-Hole States in Sn-133**  
VAQUERO V., JUNGCLAUS A., DOORNENBAL P., WIMMER K., GARGANO A., Tostevin J. A., CHEN S., NACHER E., SAHIN E., SHIGA Y., et al.  
PHYSICAL REVIEW LETTERS, vol.118, no.20, 2017 (SCI-Expanded)
- XVI. **Toward lifetime and g factor measurements of short-lived states in the vicinity of Pb-208**  
Ralet D., Georgiev G., Stuchbery A. E., CLEMENT E., LEMASSON A., Michelagnoli C., REJMUND M., Atanasova L., BALABANSKI D. L., BOCCHI G., et al.  
PHYSICA SCRIPTA, vol.92, no.5, 2017 (SCI-Expanded)
- XVII. **Lifetime measurements in Ru-100**  
KONSTANTINOPOULOS T., PETKOV P., Goasduff A., ARICI T., ASTIER A., Atanasova L., AXIOTIS M., BONATSOS D., Detistov P., Dewald A., et al.  
PHYSICAL REVIEW C, vol.95, no.1, 2017 (SCI-Expanded)
- XVIII. **Magnetic moment of the 13/2(+) isomeric state in Cu-69: Spin alignment in the one-nucleon removal reaction**  
KUSOGLU A., GEORGIEV G., SOTTY C., BALABANSKI D. L., GOASDUFF A., ISHII Y., ABE Y., ASAHI K., Bostan M., CHEVRIER R., et al.  
PHYSICAL REVIEW C, vol.93, no.5, 2016 (SCI-Expanded)
- XIX. **Shell evolution beyond N=40: Cu-69, Cu-71, Cu-73**  
SAHIN E., DONCEL M., SIEJA K., DE ANGELIS G., GADEA A., QUINTANA B., GORGEN A., MODAMIO V., MENGONI D., VALIENTE-DOBON J. J., et al.  
PHYSICAL REVIEW C, vol.91, no.3, 2015 (SCI-Expanded)
- XX. **Magnetism of an Excited Self-Conjugate Nucleus: Precise Measurement of the g Factor of the 2(1+) State in Mg-24**  
KUSOGLU A., Stuchbery A. E., GEORGIEV G., Brown B. A., GOASDUFF A., ATANASOVA L., BALABANSKI D. L., Bostan

- M., DANCHEV M., Detistov P., et al.  
 PHYSICAL REVIEW LETTERS, vol.114, no.6, 2015 (SCI-Expanded)
- XXI. **Shape evolution in the neutron-rich osmium isotopes: Prompt gamma-ray spectroscopy of Os-196**  
 JOHN P. R., Modamio V., VALIENTE-DOBON J. J., Mengoni D., Lunardi S., RODRIGUEZ T. R., Bazzacco D., Gadea A., Wheldon C., Alexander T., et al.  
 PHYSICAL REVIEW C, vol.90, no.2, 2014 (SCI-Expanded)
- XXII. **Tilted foils polarization at REX-ISOLDE**  
 Tornqvist H., Sotty C., Balabanski D., Dhal A., Georgiev G., Hass M., Heinz A., Hirayama Y., Imai N., Johansson H., et al.  
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.317, pp.685-688, 2013 (SCI-Expanded)
- XXIII. **Collective nature of low-lying excitations in Zn-70,Zn-72,Zn-74 from lifetime measurements using the AGATA spectrometer demonstrator**  
 Louchart C., Obertelli A., Goergen A., Kortzen W., Bazzacco D., Birkenbach B., Bruyneel B., Clément E., Coleman-Smith P. J., Corradi L., et al.  
 PHYSICAL REVIEW C, vol.87, no.5, 2013 (SCI-Expanded)
- XXIV. **LIFETIME MEASUREMENTS IN NEUTRON-RICH Cu ISOTOPES**  
 Doncel M., Sahin E., Gadea A., de Angelis G., Quintana B., Valiente-Dobon J. J., Modamio V., Albers M., Bazzacco D., Clement E., et al.  
 ACTA PHYSICA POLONICA B, vol.44, no.3, pp.505-510, 2013 (SCI-Expanded)
- XXV. **Structure of the N=50 As, Ge, Ga nuclei**  
 SAHIN E., DE ANGELIS G., DUCHENE G., FAUL T., GADEA A., Lisetskiy A. F., ACKERMANN D., ALGORA A., Aydin S., AZAIEZ F., et al.  
 NUCLEAR PHYSICS A, vol.893, pp.1-12, 2012 (SCI-Expanded)
- XXVI. **Gamma-ray fast-timing coincidence measurements from the O-18+O-18 fusion-evaporation reaction using a mixed LaBr3-HPGe array**  
 Alharbi T., Mason P. J. R., Regan P. H., Podolyak Z., Marginean N., Nakhostin M., Bowry M., Bucurescu D., Cata-Danil G., Cata-Danil I., et al.  
 APPLIED RADIATION AND ISOTOPES, vol.70, no.7, pp.1337-1339, 2012 (SCI-Expanded)
- XXVII. **Half-life of the I-pi=4(-) intruder state in P-34: M2 transition strengths approaching the island of inversion**  
 Mason P. J. R., Alharbi T., Regan P. H., Marginean N., Podolyak Z., Simpson E. C., Alkhomashi N., Bender P. C., Bowry M., Bostan M., et al.  
 PHYSICAL REVIEW C, vol.85, no.6, 2012 (SCI-Expanded)
- XXVIII. **Discovery of a new isomeric state in Ni-68: Evidence for a highly deformed proton intruder state**  
 Dijon A., Clément E., de France G., de Angelis G., Duchene G., Dudouet J., Franchoo S., Gadea A., Gottardo A., Hueyuek T., et al.  
 PHYSICAL REVIEW C, vol.85, no.3, 2012 (SCI-Expanded)
- XXIX. **THE EFFECT OF VALENCE NEUTRONS ON SPIN-ORBIT SPLITTING**  
 Kusoglu A., Bostan M., Erduran M. N.  
 ACTA PHYSICA POLONICA B, vol.42, pp.497-503, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Extra yield in hot Ni isotopes below the Giant Dipole Resonance**  
 Wieland O., Bracco A., Camera F., Aogaki S., Balabanski D. L., Boicu E., Borcea R., Boromiza M., Burducea I., Calinescu S., et al.  
 NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, no.2, 2024 (ESCI)
- II. **Ground-breaking developments in 10B with inelastic proton scattering**  
 KUŞOĞLU A., Constantin P., Soderstrom P. -, Balabanski D. L., Cuciuc M., Aogaki S., Ban R. S., Borcea R., Corbu R., Costache C., et al.

NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, no.2, 2024 (ESCI)

- III. **From implementation to operation and the first measurements with the ELIGANT detectors from ELI-NP**  
Soderstrom P. A., KUŞOĞLU A., Balabanski D. L., Brezeanu M., Choudhury D., Gavrilescu A., Gutoiu R. A., Ioannidis S., Lorusso G., Markova M., et al.  
NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, no.2, 2024 (ESCI)
- IV. **Renewed Interest in Spectroscopy of the Lightest Doubly-Odd  $N = Z$  Nuclei**  
Kusoglu A., Balabanski D. L.  
QUANTUM BEAM SCIENCE, vol.7, no.3, 2023 (ESCI)
- V. **Preparation of a joint experimental campaign using ELI-NP detectors at ROSPHERE at IFIN-HH**  
Aogaki S., Balabanski D. L., Borcea R., Ciocan G., Constantin P., Costache C., Cuciuc M., Filipescu D., Kuşoğlu A., Mărginean N., et al.  
ELI-NP Annual Report 2020-2021, no.2021, pp.161-166, 2022 (Non Peer-Reviewed Journal)
- VI. **Investigation of magnetic moments in Coulomb fission**  
Hafner G., Lozeva R., Si M., Ichikawa Y., Ueno H., Ahn D., Asahi K., Asakawa T., Baba H., Esmaylzadeh A., et al.  
RIKEN Accelerator Progress Report, vol.54, pp.29, 2021 (Peer-Reviewed Journal)
- VII. **Study of 200 via a DSAM lifetime measurement**  
Zanon I., Clément E., Goasduff A., Ciemala M., Flavigny F., Lemasson A., Matta A., Ramos D., Achouri L., Ackermann D., et al.  
LNL INFN Annual Report 2020, vol.262, no.31, pp.31-32, 2021 (Peer-Reviewed Journal)
- VIII. **Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the  $N=82$  shell closure**  
Vaquero V., Jungclaus A., Rodriguez-Sanchez J., Tostevin J., Doornenbal P., Wimmer K., Kuşoğlu A.  
RIKEN Accelerator Progress Report, vol.53, no.4, pp.4, 2020 (Peer-Reviewed Journal)
- IX. **Magnetic-moment measurement of the isomeric state of  $^{130}\text{Sn}$  in the vicinity of the doubly-magic nucleus  $^{132}\text{Sn}$**   
Georgiev G., Ichikawa Y., Ahn D., Asakawa T., Asahi K., Baba H., Doi K., Fukuda N., Kuşoğlu A.  
RIKEN Accelerator Progress Report, vol.53, no.47, pp.47, 2020 (Peer-Reviewed Journal)
- X. **Investigation of magnetic moments and spin alignment in Coulomb fission reaction**  
Lozeva R., Hafner G., Si M., Ichikawa Y., Ueno H., Ahn D., Asahi K., Asakawa T., Baba H., Esmaylzadeh A., et al.  
RIKEN Accelerator Progress Report, vol.53, no.46, pp.46, 2020 (Peer-Reviewed Journal)
- XI. **In-beam gamma-ray spectroscopy of  $^{136}\text{Te}$  at relativistic energies**  
Vaquero V., Jungclaus A., Doornenbal P., Wimmer K., Moro A., Ogata K., Furumoto T., Kuşoğlu A.  
RIKEN Accelerator Progress Report, vol.53, no.37, pp.37, 2020 (Peer-Reviewed Journal)
- XII. **TDPAD measurement for the 10- isomer of  $^{88}\text{Y}$**   
Daugas J., Boulay F., Ichikawa Y., Takamine A., Ahn D., Asahi K., Baba H., Kuşoğlu A.  
RIKEN Accelerator Progress Report, vol.53, no.45, pp.45, 2020 (Peer-Reviewed Journal)
- XIII.  **$g$ -Factor of the  $^{99}\text{Zr}$  isomer: monopole evolution in the shape-coexisting region**  
Boulay F., Simpson G., Ichikawa Y., Kisyov S., Bucurescu D., Takamine A., Ahn D., Kuşoğlu A.  
RIKEN Accelerator Progress Report, vol.53, no.5, pp.5, 2020 (Peer-Reviewed Journal)
- XIV. **Magnetic moment of the isomeric state of  $^{75}\text{Cu}$  measured with a highly spin-aligned beam**  
Ichikawa Y., Nishibata H., Tsunoda Y., Takamine A., Imamura K., Fujita T., Sato T., Momiyama S., Shimizu Y., Ahn D., et al.  
JPS Conference Proceedings, vol.32, pp.1-4, 2020 (Peer-Reviewed Journal)
- XV. **Modelling hyperfine interactions for nuclear  $g$ -factor measurements**  
McCormick B., Stuchbery A., Goasduff A., Kuşoğlu A., Georgiev G.  
EPJ Web of Conferences, vol.232, no.4009, pp.1-6, 2020 (Peer-Reviewed Journal)
- XVI. **Magnetic-moment measurement of the isomeric state of  $^{130}\text{Sn}$  in the vicinity of doubly-magic nucleus  $^{132}\text{Sn}$**   
Georgiev G., ICHIKAWA Y., Ahn D., Asakawa T., ASAHI K., Baba H., Doi K., Fukuda N., Gladkov A., Gray T., et al.  
RIKEN Accelerator Progress Report, vol.52, pp.46, 2019 (Peer-Reviewed Journal)

- XVII. **Photonuclear spectroscopy with the ELIADÉ array at ELI-NP**  
Soderstrom P. -, Suliman G., Ur C. A., Balabanski D., Capponi L., Dhal A., Iancu V., Ilie S., Kusoglu A., Petcu C., et al.  
NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, vol.42, 2019 (ESCI)
- XVIII. **Single-particle states and collective modes: magnetic moment of  $^{75}\text{mCu}$**   
ICHIKAWA Y., NISHIBATA H., Tsunoda Y., Takamine A., Imamura K., Fujita T., Sato T., Momiyama S., Shimizu Y., AHN D. S., et al.  
RIKEN Accelerator Progress Report, vol.51, pp.67, 2018 (Peer-Reviewed Journal)
- XIX. **Competition between shape and shell in  $^{75}\text{Cu}$  clarified by the novel magnetic moment measurement**  
Ichikawa Y., Nishibata H., Takamine A., Imamura K., Fujita T., Sato T., Momiyama S., Shimizu Y., Ahn D., Asahi K., et al.  
RIKEN Accelerator Progress Report, vol.50, pp.60, 2017 (Peer-Reviewed Journal)
- XX. **Magnetic moment of the  $13/2^+$  isomeric state in  $^{69}\text{Cu}$ : Spin alignment in a single-nucleon removal reaction**  
Kuşoğlu A., Georgiev G., Sotty C., Balabanski D. L., Goasduff A., Ishii Y., Abe Y., Asahi K., Bostan İ. M., Chevrier R., et al.  
RIKEN Accelerator Progress Report, vol.50, pp.72, 2017 (Peer-Reviewed Journal)
- XXI. **Magnetic moment measurement of isomeric state in  $^{99}\text{Zr}$  and characterization of abrasion-fission mechanism**  
Boulay F., Daugas J. M., Simpson G., Ichikawa Y., Takamine A., Ahn D., Asahi K., Baba H., Balabanski D. L., Agami T., et al.  
RIKEN Accelerator Progress Report, vol.49, pp.54, 2016 (Peer-Reviewed Journal)
- XXII. **Magnetic moment measurement of isomeric state in  $^{75}\text{Cu}$**   
Ichikawa Y., Takamine A., Nishibata H., Imamura K., Fujita T., Sato T., Momiyama S., Shimizu Y., Ahn D., Asahi K., et al.  
RIKEN Accelerator Progress Report, vol.49, pp.4, 2016 (Peer-Reviewed Journal)
- XXIII. **Search for Isomers in the neutron-rich Pt-Os-W Region**  
John P. R., Modamio V., Valiente-Dobon J., Mengoni D., Lunardi S., Alexander T., Angelis G. D., Ashwood N., Barr M., Bazzacco D., et al.  
LNL Annual Report 2012, vol.239, pp.20-22, 2013 (Peer-Reviewed Journal)
- XXIV. **Gamma Spectroscopy on the Neutron-Rich Osmium Isotopes**  
John P. R., Modamio V., Valiente-Dobon J., Mengoni D., Lunardi S., Alexander T., Angelis G. d., Ashwood N., Barr M., Bazzacco D., et al.  
LNL Annual Report 2011, vol.238, pp.15, 2012 (Peer-Reviewed Journal)
- XXV. **First Campaign with the AGATA Demonstrator at LNL: Lifetime of Excited States in  $^{72}\text{Zn}$  and  $^{74}\text{Zn}$**   
Louchart C., Gørgen A., Obertelli A., Korten W., Sahin E., Doncel M., Bazzacco D., Clément E., Corradi L., Angelis G. D., et al.  
LNL Annual Report 2010, vol.234, pp.3, 2011 (Peer-Reviewed Journal)
- XXVI. **Lifetime Measurement in Neutron-rich Cu Isotopes**  
Doncel M., Sahin E., Gørgen A., Gadea A., Angelis G. d., Quintana B., Valiente-Dobon J., Louchart C., Korten W., Albers M., et al.  
LNL Annual Report 2010, vol.234, pp.5, 2011 (Peer-Reviewed Journal)
- XXVII. **Study of neutron-rich nuclei around  $N=50$  toward  $^{78}\text{Ni}$ : gamma-gamma thick target experiment with the  $^{82}\text{Se} + ^{238}\text{U}$  reaction**  
Sahin E., Angelis G. D., Gadea A., Ur C., Valiente-Dobon J., Aydin S., Bazzacco D., Bostan İ. M., Didierjean F., Erduran M., et al.  
LNL Annual Report 2009, no.230, pp.10, 2010 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

### I. Neutron quest for $^{27}\text{Al}(\alpha, n)$ reaction

Roy R., Testov D., Choudhury D., Balabanski D., Aogaki S., Brezeanu M., Burducea I., Decebal I., Dhal A., Djourelou N., et al.

67th DAE Solid State Physics Symposium, Visakhapatnam, India, 20 - 24 December 2023

- II. **Neutron production yield in alpha induced reactions on CaF<sub>2</sub> and <sup>27</sup>Al**  
 Testov D., Söderström P., Lorusso G., Roy R., Aogaki S., State A., Azhibekov A., Balabanski D., Ban S., Brezeanu M., et al.  
 Technical Meeting on (alpha,n) Reaction Nuclear Data Evaluations and Data Needs, Vienna, Austria, 27 November - 01 December 2023, pp.1
- III. **Quest fo (alpha,n) reaction cross-section on <sup>27</sup>Al**  
 Roy R., Testov D., Choudhury D., Balabanski D., Aogaki S., Brezeanu M., Burducea I., Cuciuc M., Iancu D., Dhal A., et al.  
 International Symposium On Nuclear Astrophysics, Karnataka, India, 30 October - 03 November 2023
- IV. **Data analysis and results from the first 9 MV campaign: the 10B experiment**  
 Kuşoğlu A.  
 Mini-workshop for the Romanian Japan Bilateral Program by JSPS, Bucuresti, Romania, 05 October 2023
- V. **Neutron Production in Alpha-Induced Reactions**  
 Roy R., Testov D., Balabanski D., Aogaki S., Brezeanu M., Burducea I., Choudhury D., Corbu R., Cuciuc M., Decebal I., et al.  
 Euroschool On Exotic Beams, Brasov, Romania, 27 August - 02 September 2023
- VI. **Ground-breaking developments in 10B with inelastic proton scattering**  
 Kuşoğlu A.  
 7th International Conference on Collective Motion in Nuclei under Extreme Conditions, Catania, Italy, 11 - 16 June 2023, pp.38
- VII. **Gamma-ray transition rates for the structure of 10B**  
 Kuşoğlu A.  
 3rd PANDORA Workshop, 5 - 07 March 2023, pp.1
- VIII. **The ELI-NP LaBr<sub>3</sub>:Ce/CeBr<sub>3</sub> detectors at ROSPHERE**  
 Aogaki S., Balabanski D. L., Borcea R., Constantin P., Costache C., Cuciuc M., Kuşoğlu A., Mihai C., Mihai R. E., Stan L., et al.  
 Vth Topical Workshop on Modern Aspects in Nuclear Structure The Many Facets of Nuclear Structure Bormio, Milan, Italy, 6 - 11 February 2023, pp.124
- IX. **Magnetic moment of <sup>75</sup>mCu measured with a highly spin-aligned beam**  
 Ichikawa Et. Al. Y., Kuşoğlu A.  
 13th International conference on Nucleus-Nucleus Collisions, NN2018, Tokyo, Japan, 4 - 08 December 2018, pp.69
- X. **High-Resolution gamma-ray spectroscopy with Eliade at the Extreme Light Infrastructure**  
 Söderström P., Suliman G., Ur C., BALABANSKI D. L., Capponi L., Dhal A., Ilie S., KUŞOĞLU A., Petcu C., Turturica G., et al.  
 Zakopane Conference on Nuclear Physics "Extremes of the Nuclear Landscape", Zakopane, Poland, 26 August - 26 September 2018, pp.48
- XI. **Spin-alignment in abrasion-fission reaction - g-factor measurement of isomeric states**  
 DAUGAS J. M., Boulay F., Simpson G., ICHIKAWA Y., Takamine A., Ahn D., ASAHI K., Baba H., BALABANSKI D. L., Egami T., et al.  
 6th Workshop on Nuclear Fission and Spectroscopy of Neutron-Rich Nuclei, Chamrousse, France, 20 - 24 March 2017, pp.75
- XII. **Nuclear g-factor measurement with time-dependent recoil in vacuum in radioactive-beam geometry**  
 Kusoglu A., Stuchbery A. E., Georgiev G., Goasduff A., Atanasova L., Balabanski D. L., Bostan M., Danchev M., Detistov P., Gladnishki K., et al.  
 1st NUBA International Conference on Nuclear Physics and Astrophysics, Antalya, Turkey, 14 - 21 September 2014, vol.590
- XIII. **Time Dependent Recoil In Vacuum: High-precision g-factor measurements of <sup>24</sup>Mg**  
 KUŞOĞLU A.  
 Euroschool on Exotic Beams 2014, Padova, Italy, 7 - 13 September 2014, pp.1-2
- XIV. **Study of shape transition in the neutron-rich Os isotopes**  
 John P. R., Modamio V., Valiente-Dobon J. J., Mengoni D., Gottardo A., Bazzacco D., Lunardi S., Alexander T., de

Angelis G., Ashwood N., et al.

International Nuclear Physics Conference (INPC), Firenze, Italy, 2 - 07 June 2013, vol.66

- XV. **TDRIV on H-like ions in radioactive beam geometry**  
KUSOGLU A.  
EWIRA/ENSAR meeting on static nuclear moment measurements with radioactive ion beams, France, 1 - 04 May 2013, pp.13
- XVI. **First nuclear spin-polarized beams at REX-ISOLDE**  
Törnqvist H., Sotty C., Benito M., Balabanski D., Dhal A., Georgiev G., Hass M., Heinz A., Hirayama Y., Imai N., et al.  
ISOLDE Workshop and Users Meeting 2012, Switzerland, 1 - 04 December 2012, pp.44
- XVII. **Shape transition in the neutron-rich Os isotopic chain**  
John P. R., Modamio V., Gadea A., Angelis G. d., Valiente-Dobon J., Benzoni G., BOSTAN M., Bowry M., Alexander T., Bazzacco D., et al.  
European Radioactive Ion Beam Conference 2012, Venedik, Italy, 1 - 04 May 2012, pp.88
- XVIII. **Half-life of the  $I\pi=4(-)$  Intruder State in P-34 Using LaBr3:Ce Fast Timing**  
Mason P. J. R., Alharbi T., Regan P. H., Marginean N., Podolyak Z., Alkhomashi N., Bender P. C., Bowry M., Bostan M., Bucurescu D., et al.  
Rutherford Centennial Conference on Nuclear Physics, Manchester, United Kingdom, 8 - 12 August 2011, vol.381
- XIX. **E0 decay and Lifetimes of 0+2 States in the Rare-earth Region: the Case of 156Dy and 160Er**  
Balabanski D., Bianco G. L., Atanasova L., Blasi N., Das Gupta S., Detistov P., Gladnishki N., Fortunato L., Kusoglu A., Nardelli A., et al.  
XXX International Workshop on Nuclear Theory, Bulgaria, 1 - 04 September 2011, pp.36-37
- XX. **Spin-Orbit Splitting Calculations for Some Closed-Shell Nuclei**  
Kusoglu A., BOSTAN İ. M.  
17th Euroschool on Exotic Beams, Spain, 1 - 04 September 2010, pp.25
- XXI. **The effect of valence neutrons on spin-orbit splitting**  
Kusoglu A., BOSTAN İ. M., ERDURAN M.  
Zakopane Conference on Nuclear Physics Extremes of the Nuclear Landscape, Poland, 1 - 04 September 2010, pp.92
- XXII. **Shell Evolution in Exotic Nuclei**  
Kusoglu A., BOSTAN İ. M.  
NUFRA 2009 Second International Conference on Nuclear Fragmentation From Basic Research to Applications, Turkey, 1 - 04 November 2009, pp.15
- XXIII. **Isospin dependence of spin-orbit potential**  
Kusoglu A., BOSTAN M.  
The 6th Balkan School on Nuclear Physics, Bulgaria, 1 - 04 September 2008, pp.5

## Other Publications

- I. **g-factor measurements and perspectives for experiments at FAIR**  
KUŞOĞLU A.  
Presentation, pp.1, 2018
- II. **Development of the Time Dependent Recoil In Vacuum technique for "radioactive-beam" geometry"**  
Kusoglu A., Georgiev G., Stuchbery A., Yordanov D., Ljungvall J., Goasduff A., Sotty C., Balabanski D., Atanasova L., Detistov P., et al.  
Presentation, pp.1, 2013
- III. **Evolution of Spin-Orbit Splitting with Valence Nucleon Number**  
Kusoglu A.  
Presentation, pp.10, 2010

## Supported Projects

KUŞOĞLU A., YALÇINKAYA M., Project Supported by Higher Education Institutions, Coulomb Fiyon Reaksiyonunda Spin-Yönelimi ve g-faktör Ölçümleri için Uygulanabilirliği, 2019 - 2020

KUŞOĞLU A., YALÇINKAYA M., Project Supported by Higher Education Institutions, Nadir İzotop İncelemeleri İçin g Faktör Ölçümleri, 2018 - 2019

KUŞOĞLU A., BOSTAN İ. M., Project Supported by Higher Education Institutions, Elektromanyetik Moment Ölçümleri ile Farklı Reaksiyonlarda Nükleer Spin Yönelimleri, 2016 - 2018

BOSTAN İ. M., KUŞOĞLU A., Project Supported by Higher Education Institutions, Egzotik Çekirdeklerde Uyarılmış Seviye Ömürleri ve Nükleer Momentler, 2014 - 2016

BOSTAN İ. M., KUŞOĞLU A., YALÇINKAYA M., Project Supported by Higher Education Institutions, Nötron Zengin Osmiyum İzotoplarında Şekil Faz Geçişinin İncelenmesi, 2011 - 2014

BOSTAN İ. M., KUŞOĞLU A., Project Supported by Higher Education Institutions, Spin-yörünge Potansiyelinin Valans Nükleon Sayısı ile Değişimi, 2008 - 2010

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Istanbul University, Turkey, January 2022

International journal of advances in engineering and pure sciences (Online), National Scientific Refreed Journal, April 2020

## Scientific Research / Working Group Memberships

Nuclear Spectroscopy Laboratory, RIKEN Nishina Center, Japan, [http://www.riken.jp/en/research/labs/rnc/nucl\\_spectro/](http://www.riken.jp/en/research/labs/rnc/nucl_spectro/), 2015 - Continues

ISOLDE, CERN, Switzerland, <http://isolde.web.cern.ch/>, 2012 - Continues

Structure de Noyau, Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse (CSNSM), France, <http://www-csnm.in2p3.fr/-Structure-du-noyau,89->, 2012 - Continues

Nuclear Structure, Institut de Physique Nucléaire (IPN), France, <http://ipnweb.in2p3.fr/>, 2011 - Continues

Groupe des Physiciens, Grand Accélérateur National d'Ions Lourds (GANIL), France, <http://www.ganil-spiral2.eu/>, 2010 - Continues

INSTITUTE FOR NUCLEAR RESEARCH AND NUCLEAR ENERGY, BULGARIAN ACADEMY OF SCIENCES, Bulgaria, <http://www.inrne.bas.bg/>, 2011 - 2014

Nuclear Physics, Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH), Romania, <http://www.nipne.ro/>, 2010 - 2012

Research, INFN-Legnaro National Laboratories, Italy, <http://www.lnl.infn.it/>, 2009 - 2011

## Metrics

Publication: 82

Citation (WoS): 338

Citation (Scopus): 319

H-Index (WoS): 12

H-Index (Scopus): 11

## Congress and Symposium Activities

International Symposium on the Celebration of 10 Years with ELI-NP -10 PW on Target , Attendee, Bucuresti, Romania, 2023

NUSTAR Week 2023, Attendee, Bucuresti, Romania, 2023

Mini-workshop for the Romanian Japan Bilateral Program by JSPS, Attendee, Bucuresti, Romania, 2023

7th International Conference on Collective Motion in Nuclei under Extreme Conditions, Attendee, Catania, Italy, 2023

The 3rd PANDORA Workshop, Okinawa Main Island, Japonya (Hybrid), Invited Speaker, Okinawa, Japan, 2023

The Young Researchers and Young Engineers Day, Attendee, Bucuresti, Romania, 2023

Helmholtz - SESAME soft X-ray Beamline Workshop -HESEB, Attendee, İstanbul, Turkey, 2022

Workshop on Fission Fragment Angular Momenta, Attendee, Washington, United States Of America, 2022

ELI-NP Young Researcher and Young Engineer Days, Attendee, Bucuresti, Romania, 2022

ISOLDE Workshop and Users Meeting 2021, Attendee, Zürich, Switzerland, 2021

nu-Ball2 online scientific workshop, Attendee, Paris, France, 2021

On-line 21th AGATA Week, Attendee, Paris, France, 2021

AGATA Turkey Collaboration Meeting, Working Group, Ankara, Turkey, 2020

gSPEC Workshop, Attendee, Milan, Italy, 2018

International School of Physics "Enrico Fermi" Course 201 "Nuclear Physics with Stable and Radioactive Ion Beams", Attendee, Italy, 2017

NUSPIN 2017, Attendee, Darmstadt, Germany, 2017

NUBA-2016: 3rd International Nuclear Physics Summer School, Attendee, Antalya, Turkey, 2016

Euroschool on Exotic Beams 2014, Attendee, Padova, Italy, 2014

NUBA Conference Series I: Nuclear Physics and Astrophysics, Attendee, Antalya, Turkey, 2014

Workshop on Nuclear Structure, Astrophysics and Reactions, Attendee, İstanbul, Turkey, 2014

2nd Workshop on the physics at the ALTO facility, Attendee, Orsay, France, 2013

EWIRA/ENSAR meeting on static nuclear moment measurements with radioactive ion beams, Attendee, Orsay, France, 2013

EGAN (European Gamma and Ancillary detectors Network) Workshop, Attendee, Orsay, France, 2012

Second workshop on Fast Timing gamma-spectroscopy, Attendee, Velingrad, Bulgaria, 2011

Nuclear Structure Challenges with Radioactive Beams, Attendee, Adrasan/Antalya, Turkey, 2010

17th Euroschool on Exotic Beams, Attendee, Santiago de Compostela, Spain, 2010

Zakopane Conference on Nuclear Physics Extremes of the Nuclear Landscape, Attendee, Krakow, Poland, 2010

High Resolution Gamma-Ray Spectroscopy Workshop, Attendee, Caen, France, 2010

AGATA PHYSICS WORKSHOP 2010, AGATA@Legnaro and AGATA@GSI, Attendee, İstanbul, Turkey, 2010

NUFRA 2009 Second International Conference on Nuclear Fragmentation From Basic Research to Applications, Attendee, Kemer/Antalya, Turkey, 2009

NEDA - New Neutron Detector for SPIRAL 2, Attendee, Istanbul, Turkey, 2009

The 6th Balkan School on Nuclear Physics, Attendee, Troyan, Bulgaria, 2008

Nuclear Physics and Astrophysics: From Stable Beams to Exotic Nuclei, Attendee, Kapadokya, Turkey, 2008

## Invited Talks

Gamma-ray transition rates for the structure of  $^{10}\text{B}$ , Conference, The 3rd PANDORA Workshop, Okinawa Main Island, Japan, Japan, March 2023

Magnetic Moment Measurements of Isomeric States, Seminar, Diğer Kurumlar, India, May 2020

g-factor measurements and nuclear spin orientation in different types of reactions, Seminar, INFN-LNL, Italy, April 2016

Evolution of Spin-Orbit Splitting with Valence Nucleon Number, Seminar, INFN-LNL, Italy, June 2010

## Scholarships

2224-B - Yurt İçi Bilimsel Etkinliklere Katılım Desteđi, TUBITAK, 2014 - 2014

TÜBİTAK/2214-Yurt Dışı Araştırma Bursu, TÜBİTAK, 2012 - 2013

Başarı Bursu, Foundation, 2004 - 2006

## **Awards**

Kuşoğlu A., Yayın Teşvik Ödülü, Tübitak Uluslararası Bilimsel Yayınları Teşvik Programı (Ubyt), August 2020

Kuşoğlu A., Yayın Teşvik Ödülü, Tübitak Ulakbim Uluslararası Bilimsel Yayınları Teşvik Programı (Ubyt), December 2019

Kuşoğlu A., Yayın Teşvik Ödülü, Tübitak Ulakbim, December 2019

Kuşoğlu A., Yayın Teşvik Ödülü, Tübitak Uluslararası Bilimsel Yayınları Teşvik Programı (Ubyt), November 2019

Kuşoğlu A., Yayın Teşvik Ödülü, Tübitak, October 2019

Kuşoğlu A., Makale olarak yayınlamaya hak kazanan poster ödülü, Zakopane Conference On Nuclear Physics Extremes Of The Nuclear Landscape, September 2010

KUŞOĞLU A., Fizik Bölüm Birincisi, İstanbul Üniversitesi, July 2006

## **Non Academic Experience**

ELI-NP Extreme Light Infrastructure - Nuclear Physics

Centre de Sciences Nucléaires et de Sciences de la Matière (CSNSM)