

Res. Asst. PhD Ayşegül ERTOPRAK

Personal Information

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International Researcher IDs

ORCID: 0000-0003-4401-4407

Publons / Web Of Science ResearcherID: R-1083-2018

Yoksis Researcher ID: 114249

Education Information

Doctorate, Istanbul University, Faculty Of Science, Fizik / Nükleer Fizik, Turkey 2013 - 2018

Postgraduate, Istanbul University, Faculty Of Science, Fizik / Nükleer Fizik, Turkey 2009 - 2013

Undergraduate Double Major, Istanbul University, Faculty Of Science, Matematik, Turkey 2006 - 2009

Undergraduate, Istanbul University, Faculty Of Science, Fizik, Turkey 2005 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, N=50 Bölgesindeki Çekirdeklerin Uyarılmış Seviyelerinin Doppler Kayması Zayıflama Metodu ile Ömür Ölçümleri, Istanbul University, Faculty of Science, Fizik Bölümü / Nükleer Fizik Abd, 2018

Postgraduate, Üniter Fermi Gazın Termodinamiği, Istanbul University, Faculty of Science, Fizik / Nükleer Fizik, 2012

Research Areas

Physics, Nuclear physics, Nuclear Structure, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Istanbul University, Faculty of Science, Department of Physics, 2018 - Continues

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2011 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Lifetimes of core-excited states in semi-magic Rh-95

Ertoprak A., Qi C., Cederwall B., Doncel M., Jakobsson U., Nyako B. M., Jaworski G., Davies P., de France G., Kuti I., et al.

EUROPEAN PHYSICAL JOURNAL A, vol.56, no.11, 2020 (SCI-Expanded)

II. **Multiple chiral bands in Nd-137**

Petrache C. M., Lv B. F., Chen Q. B., Meng J., Astier A., Dupont E., Zheng K. K., Greenlees P. T., Badran H., Calverley T., et al.

EUROPEAN PHYSICAL JOURNAL A, vol.56, no.8, 2020 (SCI-Expanded)

III. **Signatures of enhanced octupole correlations at high spin in Nd-136**

Petrache C. M., Minkov N., Nakatsukasa T., Lv B. F., Astier A., Dupont E., Zheng K. K., Greenlees P., Badran H., Calverley T., et al.

PHYSICAL REVIEW C, vol.102, no.1, 2020 (SCI-Expanded)

IV. **Evidence for octupole collectivity in Pt-172**

Ertoprak A., Cederwall B., Qi C., Aktas O., Doncel M., Hadinia B., Liotta R., Sandzelius M., Scholey C., Andgren K., et al.

EUROPEAN PHYSICAL JOURNAL A, vol.56, no.2, 2020 (SCI-Expanded)

V. **Isospin Properties of Nuclear Pair Correlations from the Level Structure of the Self-Conjugate Nucleus Ru-88**

Cederwall B., Liu X., Aktas O., Ertoprak A., Zhang W., Qi C., Clement E., de France G., Ralet D., Gadea A., et al.

PHYSICAL REVIEW LETTERS, vol.124, no.6, 2020 (SCI-Expanded)

VI. **Preface: Turkish Physical Society 35th International Physics Congress (TPS35)**

Akkuş B., Burcu Cakirli Mutlu R., Güdekli E., Kinacı B., Güzelçimen F., Dogan G. S., Akıncı F. Ç., Ertoprak A.

AIP Conference Proceedings, vol.2178, 2019 (SCI-Expanded)

VII. **Highly deformed bands in Nd nuclei: New results and consistent interpretation within the cranked Nilsson-Strutinsky formalism**

Petrache C. M., Lv B. F., Astier A., Dupont E., Zheng K. K., Greenlees P. T., Badran H., Calverley T., Cox D. M., Grahn T., et al.

PHYSICAL REVIEW C, vol.100, no.5, 2019 (SCI-Expanded)

VIII. **Chirality of Nd-135 reexamined: Evidence for multiple chiral doublet bands**

Lv B. F., Petrache C. M., Chen Q. B., Meng J., Astier A., Dupont E., Greenlees P., Badran H., Calverley T., Cox D. M., et al.

PHYSICAL REVIEW C, vol.100, no.2, 2019 (SCI-Expanded)

IX. **Collective rotation of an oblate nucleus at very high spin**

Petrache C., Frauendorf S., Lv B. F., Astier A., Dupont E., Guo S., Liu M. L., Zhou X. H., Wang K. L., Greenlees P. T., et al.

PHYSICAL REVIEW C, vol.99, no.4, 2019 (SCI-Expanded)

X. **Evolution from gamma-soft to stable triaxiality in Nd-136 as a prerequisite of chirality**

Lv B. F., Petrache C. M., Astier A., Dupont E., Lopez-Martens A., Greenlees P. T., Badran H., Calverley T., Cox D. M., Grahn T., et al.

PHYSICAL REVIEW C, vol.98, no.4, 2018 (SCI-Expanded)

XI. **M1 and E2 transition rates from core-excited states in semi-magic Ru-94**

Ertoprak A., Cederwall B., Qi C., Doncel M., Jakobsson U., Nyako B. M., Jaworski G., Davies P., de France G., Kuti I., et al.

EUROPEAN PHYSICAL JOURNAL A, vol.54, no.9, 2018 (SCI-Expanded)

XII. **Lifetime Measurements of Excited States in Pt-172 and the Variation of Quadrupole Transition Strength with Angular Momentum**

Cederwall B., Doncel M., Aktas O., Ertoprak A., Liotta R., Qi C., Grahn T., Cullen D. M., Hodge D., Giles M., et al.

PHYSICAL REVIEW LETTERS, vol.121, no.2, 2018 (SCI-Expanded)

XIII. **Evidence of chiral bands in even-even nuclei**

Petrache C. M., Lv B. F., Astier A., Dupont E., Wang Y. K., Zhang S. Q., Zhao P. W., Ren Z. X., Meng J., Greenlees P. T., et al.

PHYSICAL REVIEW C, vol.97, no.4, 2018 (SCI-Expanded)

XIV. **LIFETIME MEASUREMENTS WITH THE DOPPLER SHIFT ATTENUATION METHOD USING A THICK HOMOGENEOUS PRODUCTION TARGET - VERIFICATION OF THE METHOD**

Ertoprak A., Cederwall B., Jakobsson U., Nyako B. M., Nyberg J., Davies P., Doncel M., De France G., Kuti I., Napoli D. R., et al.
ACTA PHYSICA POLONICA B, vol.48, no.3, pp.325-329, 2017 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of Radon Concentration Levels In Well Waters Near The North Anatolian Fault Zone, In Gonen/ Balıkesir, Turkey**
AYTAN Ö., Emirhan M. E., KURT A., ERTOPRAK A., ÖKTEM Y., AKKUŞ B.
17th International Balkan Workshop on Applied Physics, Constanta, Romania, 11 - 14 July 2017, pp.119
- II. **DETERMINATION OF RADON CONCENTRATION LEVELS IN WELL WATERS NEAR THE NORTH ANATOLIAN FAULT ZONE, IN GÖNEN / BALIKESIR, TURKEY**
AYTAN Ö., EMİRHAN M. E., KURT A., ERTOPRAK A., ÖKTEM Y., AKKUŞ B.
17th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2017), Köstence, Romania, 11 - 14 July 2017

Other Publications

- I. **7th Internationally Participated Summer School on Particle Accelerators and Detectors Lecture Notes**
ŞAHİN L., Ganioglu E., Çetinkaya H., ERTOPRAK A., ÖZTÜRK F. Ç., Hafızoglu N., Bozkurt E.
Lecture Note, pp.1-556, 2011
- II. **7th International Student Conference of the Balkan Physical Union, Book of Abstracts**
ŞAHİN L., Aydoğu S., Çetinkaya H., ERTOPRAK A., Çınar Ç.
Other, pp.1-105, 2009

Supported Projects

AKKUŞ B., ERTOPRAK A., Project Supported by Higher Education Institutions, N=50 Bölgesindeki Çekirdeklerin Uyarılmış Seviyelerinin Doppler Kayması Zayıflama Metodu ile Ömür Ölçümleri, 2014 - 2019

Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 2010 - Continues

Metrics

Publication: 18
Citation (WoS): 46
Citation (Scopus): 47
H-Index (WoS): 4
H-Index (Scopus): 4

Congress and Symposium Activities

Probing fundamental interactions by low energy excitations, Advances in theoretical nuclear physics, Attendee,

Stockholm, Sweden, 2017

3rd Coulex School, Attendee, Padova, Italy, 2016

Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2016

Zakopane Conference on Nuclear Physics 2016, Attendee, Kraków, Poland, 2016

16th International Balkan Workshop on Applied Physics and Materials Science, Attendee, Constanta, Romania, 2016

9th International Balkan School on Nuclear Physics - 2016, Attendee, Constanta, Romania, 2016

8th Workshop on Quantum Phase Transitions in Nuclei and Many-Body Systems, Attendee, Praha, Czech Republic, 2016

XXI International School on Nuclear Physics and Applications & International Symposium on Exotic Nuclei (2015),

Attendee, Varna, Bulgaria, 2015

Balkan Fizik Birliği 9. Uluslararası Fizik Konferansı (BPU-9), Attendee, Istanbul, Turkey, 2015

International Summer School on Nuclear Physics, La Rabida, Attendee, Huelva, Spain, 2015

Nuclear Structure and Dynamics III, Attendee, Portoroz, Slovenia, 2015

Workshop about Chiral Bands in Nuclei, Attendee, Stockholm, Sweden, 2015

Zakopane Conference on Nuclear Physics 49th in the series of Zakopane Schools of Physics, Attendee, Zakopane, Poland, 2014

Fifteenth International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics (CGS-15), Attendee, Dresden, Germany, 2014

Türk Fizik Derneği 10. Uluslararası Katılımlı Parçacık Hızlandırıcıları ve Detektörleri Yaz Okulu, Attendee, Muğla / Bodrum, Turkey, 2014

Türk Fizik Derneği 31. Uluslararası Fizik Kongresi, Attendee, Bodrum / Muğla, Turkey, 2014

7th Workshop on Shape-Phase Transitions and Critical Point Quantum Phenomena in Nuclei, Attendee, Sevilla, Spain, 2014

Turkish Physical Society - Fifth International Participation Congress on Particle Accelerators and Applications, Attendee, Bodrum / Muğla, Turkey, 2013

Turkish Physical Society - Ninth International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum / Muğla, Turkey, 2013

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

Turkish Physical Society 30th International Physics Congress, Attendee, İstanbul, Turkey, 2013

10th International Student Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2013

Turkish Physical Society - 8. International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum / Muğla, Turkey, 2012

Turkish Physical Society 29th International Physics Congress, Attendee, Bodrum / Muğla, Turkey, 2012

6th International Workshop on Shape-Phase Transitions and Critical-Point Phenomena in Nuclei, Attendee, Darmstadt, Germany, 2012

Turkish Physical Society 28th International Physics Conference, Attendee, Bodrum / Muğla, Turkey, 2011

Turkish Physical Society - Seventh International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum / Muğla, Turkey, 2011

Turkish Physical Society 27th International Physics Congress, Attendee, Bodrum / Muğla, Turkey, 2010

Turkish Physical Society - Sixth International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum / Muğla, Turkey, 2010

Turkish Physical Society Fourth National Congress on Particle Accelerators and Applications, Attendee, Bodrum / Muğla, Turkey, 2010

ISCBPU - 7, Seventh International Student Conference of the Balkan Physical Union, Attendee, Bodrum / Muğla, Turkey, 2009

The 5th International Workshop on Shape - Phase Transitions and Critical Point Phenomena in Nuclei, Attendee, İstanbul, Turkey, 2009

Turkish Physical Society 26th International Physics Congress, Attendee, Bodrum / Muğla, Turkey, 2009

Turkish Physical Society - Fifth International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum / Muğla, Turkey, 2009

Scholarships

TÜBİTAK Yurt İçi Doktora Bursu, TÜBİTAK, 2013 - 2018
Türk Eğitim Vakfı Master Bursu, Foundation, 2011 - 2013

Awards

ERTOPRAK A., Prof. Dr. Şevket ERK Genç Bilim İnsanı Ödülü, Türk Fizik Derneği, September 2019
ERTOPRAK A., "Fen Fakültesi Mezuniyet Töreni" (Fizik Bölümü İkinciliği), İstanbul Üniversitesi Fen Fakültesi, July 2009