

Lect. Dr. Alp CESUR

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Employment History

2019 –  **Lecturer.** Antalya Bilim University
Vocational School of Health Services
Medical Services and Techniques – Medical Imaging Techniques

Education

2022 – 2025  **Ph.D. in Physics. Akdeniz University.**
Thesis title: *Determination of the Dose Received by Critical Organs in External Radiotherapy by Monte Carlo Method.*

2012 – 2015  **M.Sc. in Physics. Akdeniz University.**
Thesis title: *Determination of the energy levels of gallium's product nuclei and the concentration of tin in tin-containing samples by photonuclear reactions.*

2007 – 2012  **B.Sc. in Physics. Akdeniz University.**

Research Publications

Journal Articles

- 1 N. U. Kockal, A. Cesur, and S. F. Ozmen, "Radiation shielding properties of mortars containing heavyweight particles," *Kernteknik*, vol. 86, no. 1, pp. 64–69, 2021.
- 2 A. Cesur and N. U. Kockal, "Effects of gamma irradiation on polymer-modified concrete (pmc): A review," *Cur Trends Civil Struct Eng.*, vol. 3, no. 3, 2019.
- 3 M. Aygün, A. Cesur, M. Doğru, and İ. Boztosun, "İyot izotoplarının enerji seviyelerinin fotonükleer reaksiyon sonuçları," 2017.
- 4 M. AYGÜN, A. CESUR, M. DOĞRU, *et al.*, "Photonuclear reaction results of energy levels of iodine isotopes," *Cumhuriyet Science Journal*, vol. 38, no. 3, pp. 502–506, 2017.
- 5 N. Demir, A. KIVRAK, M. Üstün, A. Cesur, and İ. Boztosun, "Experimental study for the energy levels of europium by the clinic linac," *International Journal of Computational and Experimental Science and Engineering*, vol. 3, no. 1, pp. 47–49, 2017.
- 6 M. Aygun, A. Cesur, M. Dogru, *et al.*, "Using a clinical linac to determine the energy levels of ^{92mnb} via the photonuclear reaction," *Applied Radiation and Isotopes*, vol. 115, pp. 97–99, 2016.
- 7 M. Aygün, A. Cesur, M. Doğru, *et al.*, "Experimental determination of the energy levels of ^{159gd} via photonuclear reaction," *Bitlis Eren University Journal of Science and Technology*, vol. 6, no. 1, pp. 13–15, 2016.
- 8 İ. Boztosun, H. Dapo, S. F. ÖZMEN, *et al.*, "The results of the first photonuclear reaction performed in turkey: The zinc example," *Turkish Journal of Physics*, vol. 38, no. 1, pp. 1–9, 2014.

- 9 S. Özmen, A. Cesur, and I. Boztosun, "Distribution of natural and anthropogenic radionuclides in beach sand samples from mediterranean coast of turkey," *Radiation physics and chemistry*, vol. 103, pp. 37–44, 2014.

Conference Proceedings

- 1 A. Cesur, M. Karakoc, H. Dapo, C. Segebade, and I. Boztosun, "Determination of the concentration of tin in tin-containing samples by photon activation analysis," in *AccApp17: 13th International Topical Meeting on Nuclear Applications of Accelerators*, 2019.
- 2 N. U. Kockal and A. Cesur, "Investigation of radiation shielding properties of heavy weight particle doped mortars," in *10th International Concrete Congress*, 2019.
- 3 N. U. Kockal, S. F. Ozmen, and A. Cesur, "Measurement of the mass attenuation coefficients of mortars having acidic pumice and scoria," in *9th International Symposium of the Eastern Mediterranean Geology*, 2018, pp. 244–246.
- 4 A. Cesur, C. Ertugay, H. Dapo, and I. Boztosun, "Determination of energy transitions and half-lives of ^{44}Sc ," in *IX. Uluslararası Nükleer Yapı Özellikleri Çalıştayı*, 2016.
- 5 C. Ertugay, A. Cesur, I. Albayrak, M. Karakoc, H. Dapo, and I. Boztosun, "Determination of transitions and half-life of ^{57}Ni ," in *IX. Uluslararası Nükleer Yapı Özellikleri Çalıştayı*, 2016.
- 6 I. Boztosun, H. Dapo, M. Karakoc, *et al.*, "Photonuclear reactions induced by a clinical linac," in *Journal of Physics: Conference Series*, IOP Publishing, vol. 590, 2015, p. 012 024.
- 7 A. Cesur, I. Boztosun, and H. Dapo, "Investigation of the photo-activation analysis on concentrations of various materials," in *Journal of Physics: Conference Series*, IOP Publishing, vol. 590, 2015, p. 012 053.
- 8 A. Cesur, M. Karakoc, C. Segebade, and I. Boztosun, "Determination of the concentration of tin in tin-containing samples by photonuclear reactions," in *Lumidoz-9, The 9th International Conference on Luminescence and ESR Dosimetry*, 2015.
- 9 A. Cesur, M. Karakoc, C. Segebade, and I. Boztosun, "Investigation of applicability of the photo-activation method," in *VIII. Uluslararası Nükleer Yapı Özellikleri Çalıştayı*, 2015.
- 10 A. Cesur, I. Boztosun, M. Karakoc, and H. Dapo, "Foto-aktivasyon analizi yönteminin uygulanabilirliğinin araştırılması," in *Adım Fizik Günleri IV*, 2014.
- 11 A. Cesur, I. Boztosun, M. Karakoc, H. Dapo, and S. F. Ozmen, "Fotoaktivasyon analizinin element derişimlerinin tespitinde kullanılabilirliğinin araştırılması," in *Adım Fizik Günleri III*, 2014.
- 12 S. F. Ozmen, I. Boztosun, and A. Cesur, "Foto-aktivasyon analizi yönteminin uygulanabilirliğinin araştırılması," in *Adım Fizik Günleri III*, 2014.

TUBITAK Projects

- 1 *Experimental Determination of Energy Levels and Half-Lives of Scandium, Antimony, Bromine, Chlorine, Gallium, Praseodymium Nuclei by Photonuclear Reaction. $^{114}\text{F}220$* : The Scientific and Technological Research Council of Türkiye (TUBITAK), 2014.
- 2 *Theoretical Investigation of Exotic Nucleus Reactions Using Optical and Paired Channel Models and Microscopic and Phenomenological Potentials. $^{111}\text{T}275$* : The Scientific and Technological Research Council of Türkiye (TUBITAK), 2013.

Conferences and Workshops

- 1 *Accapp17: 13th international topical meeting on nuclear applications of accelerators*, July 31 - August 4, Quebec City, Canada, 2017.
- 2 *Ix. international workshop on nuclear structure properties (nsp 2016)*, September 1-3, Sivas, Turkey, 2016.
- 3 *Nuba-2016: The 3rd international nuclear physics summer school (instructor)*, May 29 - June 5, Antalya, Turkey, 2016.
- 4 *Adım fizik günleri iv*, May 28-29, Kütahya, Turkey, 2015.
- 5 *Lumidoz-9, the 9th international conference on luminescence and esr dosimetry*, September 2-4, Antalya, Turkey, 2015.
- 6 *Nuba international nuclear physics summer course (instructor)*, August 22-30, Antalya, Turkey, 2015.
- 7 *Viii. international workshop on nuclear structure properties (nsp 2015)*, September 7-10, Sakarya, Turkey, 2015.
- 8 *Adım fizik günleri iii*, April 17-18, Isparta, Turkey, 2014.
- 9 *Ankara üniversitesi nükleer bilimler (nbe) ve adli bilimler enstitüleri nükleer adli bilimler yaz okulu*, September 7-14 Antalya, Turkey, 2014.
- 10 *Nuba conference series-1: Nuclear physics and astrophysics*, September 15-21, Antalya, Turkey, 2014.
- 11 *Nuba-2014: The 1st international nuclear physics summer school (instructor)*, June 19-25, Antalya, Turkey, 2014.
- 12 *Ankara üniversitesi, nükleer bilimler enstitüsü, uygulamalı dozimetri ve tarihlendirme (osl ve esr) yaz okulu*, August 26-31, Ankara, Turkey, 2013.
- 13 *Taek çevresel radyoaktivite ölçümleri çalıştay*, March 27-29, Ankara, Turkey, 2013.
- 14 *Li interneational workshop on acceleration and applications of heavy ions, hil*, February 26 - March 10, Warsaw, Poland, 2012.

Skills

Languages	Strong reading, writing and speaking competencies for Turkish and English. Beginner level of reading, writing and speaking competencies for French and Japanese.
Coding	Python, C++, Mathematica, GF3 Radware, ROOT (Cern), L ^A T _E X, ...
Misc.	Academic research, teaching, training, performing, ...

Miscellaneous Experience

Administrative Duties

2023 –  **Deputy Head of Department**, Vocational School of Health Services

Certification

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| 2014 |  Nuclear Forensic Sciences.
Duration of Training Program: 48 hours |
| 2013 |  Applied Dosimetry and Dating (Luminescence & ESR).
Duration of Training Program: 60 hours |