




# Lect. 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 – . . . . .  **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," *Kerntechnik*, 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 I. 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  $^{44}\text{Sc}$ ," 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  $^{57}\text{Ni}$ ," 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*. 114F220: 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*. 111T275: 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 çalıştayı*, March 27-29, Ankara, Turkey, 2013.
- 14 *Ii interneational workshop on acceleration and applications of heavy ions, hil*, February 26 - March 10, Warsaw, Poland, 2012.

## Skills

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|-----------|---|
| Languages | Strong reading, writing and speaking competencies for Turkish and English.<br>Beginner level of reading, writing and speaking competencies for French and Japanese. |
| Coding    | Python, C++, Mathematica, GF3 Radware, ROOT (Cern), L <sup>A</sup> T <sub>E</sub> 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 | <b>Nuclear Forensic Sciences.</b><br>Duration of Training Program: 48 hours                             |
| 2013 | <b>Applied Dosimetry and Dating (Luminescence &amp; ESR).</b><br>Duration of Training Program: 60 hours |