# Prof. Yeşim ÖKTEM

## Personal Information

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## Education Information

Doctorate, Istanbul University, Fen Bilimleri Enstitisü, Fizik Anabilim Dalı, Nükleer Fizik Programı, Turkey 2002 - 2005
Postgraduate, Istanbul University, Fen Bilimleri Enstitisü, Fizik Anabilim Dalı, Nükleer Fizik Programı, Turkey 1998 - 2002
Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1988 - 1997

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, 191,192 Pt Çekirdeklerinde Yüksek Spin Yapısı ve Deformasyonlar, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, Nükleer Fizik Programı, 2005
Postgraduate, 11B+186W Reaksiyonu ile Üretilen Yrast Ball Verilerinin Gama Spektroskopisi, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, Nükleer Fizik Programı, 2002

## 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

Professor, Istanbul University, Faculty of Science, Department of Physics, 2014 - Continues
Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2009 - 2014
Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2009 - 2009
Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 1998 - 2009

## Academic and Administrative Experience

Dean, Istanbul University, Faculty Of Science, Department Of Physics, 2017 - 2020
İstanbul Üniversitesi, Faculty of Science, 2011 - 2015
İstanbul Üniversitesi, Faculty of Science, Fakülte Kurulu Üyesi, 2009 - 2015
İstanbul Üniversitesi, 2009 - 2015
İstanbul Üniversitesi, Faculty of Science, 2009 - 2015

## Courses

Tanecik Hızlandırıcıları, Postgraduate, 2017 - 2018
İleri Fizik Uygulamaları II, Undergraduate, 2017 - 2018
Fizik Laboratuarı I, Undergraduate, 2017 - 2018
Parçacık Hızlandırıcılarının Nükleer Fizik Uygulamaları I, Doctorate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Çekirdek Fiziği II, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013
Çekirdek Fiziği I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Parçacık Hızlandırıcılarının Nükleer Fizik Uygulamaları II, Doctorate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
İleri Fizik Uygulamaları, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Radyasyon Fiziği, Postgraduate, 2016 - 2017, 2015 - 2016, 2012 - 2013

## Advising Theses

ÖKTEM Y., Kütle Numarası 47-63 Aralığındaki Egzotik pf-Kabuk Çekirdeklerine Ait Yarı Ömür Ölçümlerinin İmplantasyon-Beta Bozunumu Methodu İle İncelenmesi, Doctorate, L.Küçük(Student), Continues
ÖKTEM Y., Arkeolojik Bulgulardan Elde Edilen Materyallerin XRF Yöntemi İle İncelenmesi, Postgraduate, A.Kamçılı(Student), Continues
ÖKTEM Y., Portal Monitör Sistemlerinin Monte Carlo Metodu İle Modellenmesi ve Simülasyonu ile Deneysel Sonuçlarının Karşılaştırılması, Doctorate, A.KURT(Student), Continues
ÖKTEM Y., Proton Terapide Dual Enerjili Bilgisayarlı Tomografi İle Durdurma Gücü Ölçülmesi Ve Hesaplanması, Doctorate, R.Dilek(Student), Continues
ÖKTEM Y., Vanadyum İzotoplarında Gamow-Teller Geçiş Güçlerinin Gelişimi, Doctorate, G.SÜSOY(Student), 2015
ÖKTEM Y., Kuantum Monte-Carlo Yaklaşımında Parite İzdüşümlü Seviye Yoğunluğu Hesaplamaları, Postgraduate, E.Akyüz(Student), 2013
ÖKTEM Y., Lineer Proton Hızlandırıcılarında Kullanılan Magnetlerin Tasarımı, Postgraduate, F.Çağla(Student), 2011
ÖKTEM Y., Sintigrafik Görüntülerde Kısmi Hacim Etkisinin İncelenmesi, Doctorate, İ.Çavdar(Student), 2011
ÖKTEM Y., Egzotik pf- kabuk çekirdeklerine ait beta bozunumlarının GANIL verisiyle incelenmesi, Postgraduate, L.Küçük(Student), 2011
ÖKTEM Y., Yük Değişim Reaksiyonu ile Elde Edilen Gamow-Teller Geçişlerinin İncelenmesi, Postgraduate, G.Süsoy(Student), 2010

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

I. **Half-life determination of T-z =-1 and T-z =-1/2 proton-rich nuclei and the beta decay of Zn-58**
Kucuk L., ORRIGO S. E. A., MONTANER-PIZA A., Rubio B., Fujita Y., Gelletly W., Blank B., Oktem Y., Adachi T., Algora A., et al.
EUROPEAN PHYSICAL JOURNAL A, vol.53, no.6, 2017 (SCI-Expanded)

II. **T-z =-1 -> 0 beta decays of Ni-54, Fe-50, Cr-46, and Ti-42 and comparison with mirror (He-3,t) measurements**
Molina F., Rubio B., Fujita Y., Gelletly W., AGRAMUNT J., Algora A., BENLLIURE J., BOUTACHKOV P., CACERES L., Cakirli R. B., et al.

PHYSICAL REVIEW C, vol.91, no.1, 2015 (SCI-Expanded)

III. **Hindered Gamow-Teller Decay to the Odd-Odd N = Z Ga-62: Absence of Proton-Neutron T=0 Condensate in A=62**
GRODNER E., GADEA A., SARRIGUREN P., LENZI S. M., GREBOSZ J., VALIENTE-DOBON J. J., Algora A., GORSKA M., Regan P. H., Rudolph D., et al.
PHYSICAL REVIEW LETTERS, vol.113, no.9, 2014 (SCI-Expanded)

IV. **Beta Decay Study of the T-z =-2 Zn-56 Nucleus and the Determination of the Half-Lives of a Few fp-shell Nuclei**
Rubio B., ORRIGO S. E. A., Kucuk L., MONTANER-PIZA A., Fujita Y., Fujita H., Blank B., Gelletly W., Adachi T., AGRAMUNT J., et al.
NUCLEAR DATA SHEETS, vol.120, pp.37-40, 2014 (SCI-Expanded)

V. **Electromagnetic transitions among octet and decuplet baryons in QCD**
Aliev T. M., Oktem Y., Savci M.
PHYSICAL REVIEW D, vol.88, no.3, 2013 (SCI-Expanded)

VI. **Triaxial deformation and nuclear shape transition in Au-192**
Oktem Y., Balabanski D. L., Akkus B., Susam L. A., Atanasova L., Beausang C. W., Cakirli R. B., Casten R. F., Danchev M., Djongolov M., et al.
PHYSICAL REVIEW C, vol.86, no.5, 2012 (SCI-Expanded)

VII. **NUCLEAR WEAK RESPONSE FROM THE COMBINED STUDY OF beta-DECAY AND CHARGE-EXCHANGE REACTION**
Fujita Y., Rubio B., Gelletly W., Blank B., Adachi T., Algora A., Ascher P., Cakirli R. B., De France G., Giovinazzo J., et al.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.18, no.10, pp.2134-2139, 2009 (SCI-Expanded)

VIII. **High-spin states in Au-191,Au-193 and Pt-192: Evidence for oblate deformation and triaxial shapes**
Oktem Y., Balabanski D. L., Akkus B., Beausang W., Bostan M., Cakirli R. B., Casten R. F., Danchev M., Djongolov M., Erduran M. N., et al.
PHYSICAL REVIEW C, vol.76, no.4, 2007 (SCI-Expanded)

IX. **Evidence for X(5) critical point symmetry in Ce-128**
BALABANSKI D. L., GLADNISHKI K. A., LO BIANCO G., SALTARELLI A., ZAMFIR N. V., MCCUTCHAN E. A., Ai H., CASTEN R. F., Heinz A., MEYER D. A., et al.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E, vol.15, no.8, pp.1735-1740, 2006 (SCI-Expanded)

X. **Simple interpretation of proton-neutron interactions in rare earth nuclei**
Oktem Y., Cakirli R. B., Casten R. F., Casperson R. J., Brenner D. S.
PHYSICAL REVIEW C, vol.74, no.2, 2006 (SCI-Expanded)

XI. **Delayed backbending in the pi h(9/2) band of Ir-187**
Danchev M., Balabanski D. L., Yigitoglu I., Akkus B., Beausang C., Bostan M., Casten R., Djongolov M., Erduran M. N., Erturk S., et al.
PHYSICAL REVIEW C, vol.68, no.5, 2003 (SCI-Expanded)

XII. **The Rare Z®J/y(g? )+ X Decays in SU(2)xU(1)xU(1) Gauge Theories**
AKKUŞ B., ÖKTEM Y., Silahtaroğlu E., Bahadiroglu G.
IL Nuovo Cimento, 1994 (SCI-Expanded)

## Articles Published in Other Journals

I. **Origin of the Backbending in proton h9/2 Band of 187Ir**
Nikolov N., Danchev M., Detistov P., Balabanski D. L., Yigitoglu I., AKKUŞ B., Beausang C., Bostan M., Casten R., Djongolov M., et al.
Meetings in Physics at University of Sofia, Heron Press Science Series, vol.ISBN, 2003 (Peer-Reviewed Journal)

II. **Lepton Number Violating Decays li ® lj gg in E6 String Model**
AKKUŞ B., Silahtaroğlu E., Aliev T. M., Çetin Y., ÖKTEM Y.

Balkan Physics Letters, pp.72-78, 1993 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Fen bilimcileri & Mühendisler için FİZİK**
ÖKTEM Y.
in: Fen bilimcileri & Mühendisler için FİZİK, GIANCOLI, aaaa, Editor, Akademi Yayıncılık, İstanbul, pp.100-200, 2009

## Refereed Congress / Symposium Publications in Proceedings

I. **EXTREMELY LOW FREQUENCY ELECTROMAGNETIC RADIATION AND HEALTH EFFECTS**
YÜKSEK S., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 09 September 2018, pp.527

II. **SEMICONCUCTOR X-RAY DETECTORS**
BAIRAM C., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 09 September 2018, pp.533

III. **MEASURABLE RADIOACTIVITY**
İnci Ç. İ., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 09 September 2018, pp.530

IV. **THE ATMOSPHERIC RADIATION MEASUREMENT (ARM) PROGRAM**
BOSTAN Y. K., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 09 September 2018, pp.534

V. **GENERAL INFORMATION ABOUT SCINTILLATION & PLASTIC SCINTILLATORS**
EROL A., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 09 September 2018, pp.528

VI. **NATURAL RADIATION**
DURAN B., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS,, İstanbul, Turkey, 5 - 09 September 2018, pp.531

VII. **POSITRON EMISSON TOMOGRAPHY/COMPUTED TOMOGRAPHY USE TOPLAM CANCER'S DIAGNOSIS**
GÜLEŞ E., KURT A., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 34th INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 09 September 2018, pp.521

VIII. **IOT (INTERNET OF THE THINGS) CARD POWEREDRADIATION DEDECTORS AND MULTICHANNELANALYZERS**
Ozcan O., AYTAN Ö., EMİRHAN M. E., ÖKTEM Y., AKKUŞ B.
Turkish Physical Society 33rd Physics Congress, 6 - 10 September 2017

IX. **CHAOS IS THEORY AND THE BUTTERFLY EFFECT**
Hamparsunoğlu A., KURT A., AYTAN Ö., EMİRHAN M. E., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017, pp.724

X. **FUTURE ENERGY IS THE FUSION**
İnci Ç. İ., KURT A., AYTAN Ö., EMİRHAN M. E., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017, pp.705

XI. **THEORY OF RELATIVITY**

KURT A., AYTAN Ö., Akyüz S., Şahinoğlu B., ÖKTEM Y., AKKUŞ B.
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AYTAN Ö., KURT A., Düzen B., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017, pp.736

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Atar İ., KURT A., AYTAN Ö., Emirhan M. E., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 5 - 10 September 2017, pp.716

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XV. **BIOLOGICAL EFFECTS OF RADIATION**
KURT A., AYTAN Ö., Kapramcı T., Akyol M., ÖKTEM Y., AKKUŞ B.
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XVII. **RADON MEASUREMENT IN SOME APARTMENTS IN THE KAĞITHANE DISTRICT**
KURT A., AYTAN Ö., Akgün H. K., Çakar S., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 10 September 2017, pp.736

XVIII. **PLAY WITH SCIENCE**
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TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017, pp.722

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TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017, pp.735

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TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 10 September 2017, pp.736

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KURT A., AYTAN Ö., Ölçen A., ÖKTEM Y., AKKUŞ B.
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Atar İ., KURT A., AYTAN Ö., EMİRHAN M. E., ÖKTEM Y., AKKUŞ B.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017, pp.716

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KURT A., AYTAN Ö., Kapramcu T., Akyol M., ÖKTEM Y., AKKUŞ B.
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Halis D., AYTAN Ö., KURT A., ÖKTEM Y.
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9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722

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International Nuclear Physics Conference INPC2013, Florence, Italy, 1 - 04 June 2013, vol.02

LI. **Hepatobiliyer Sistem Sintigrafisinde Tc-99m Mebrofenin Kullanılarak Farklı Klirens Hesaplama Metodlarının Karşılaştırılması**
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25.Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 6 - 10 April 2013, pp.96-97

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Türk Fizik Derneği, 3. Ulusal Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu Özet Kitabı, Editor, 2007 - Continues
Turkish Physical Society 34th International Physics Conference Proceeding, Editor, 2018 - 2018
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Türk Fizik Derneği, 25. Uluslararası Fizik Kongresi Özet Kitabı, Editor, 2008 - 2008
Sixth International Student Conference of the Balkan Physical Union Özet Kitabı, Editor, 2008 - 2008
Balkan Physical Union 2nd International Physics Project Competition for University Students Özet Kitabı , Editor, 2008 - 2008
3. Parçacık Hızlandırıcıları ve Uygulamaları Kongresi Özet Kitabı Özet Kitabı, Editor, 2007 - 2007
Türk Fizik Derneği, 24. Uluslararası Fizik Kongresi Özet Kitabı, Editor, 2007 - 2007
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## Memberships / Tasks in Scientific Organizations

Balkan Fizik Birliği, Chairman, 2012 - Continues
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## Metrics

Publication: 92
Citation (WoS): 127
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