

Prof. Rabia Burcu ÇAKIRLI MUTLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-1459-2020

Yoksis Researcher ID: 34726

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Programı, Turkey 2004 - 2009

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Programı, Turkey 2001 - 2004

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1996 - 2000

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Valans Proton-Nötron Etkileşmelerinin Atomik Çekirdekteki Etkilerinin Araştırılması, Istanbul University, Fizik, Nükleer Fizik, 2009

Postgraduate, A~100 Bölgesindeki Kollektivite Başlangıcının ($\alpha, 2n$) Reaksiyonundan Oluşan 98Ru Çekirdeğinde İncelenmesi, Istanbul University, Fizik, Nükleer Fizik, 2004

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, 2018 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2013 - 2018

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2009 - 2013

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2001 - 2009

Courses

FİZİK II - ELEKTRİK VE MANYETİZMA, Undergraduate, 2021 - 2022
İleri Fizik Uygulamaları II, Undergraduate, 2020 - 2021
Fizik 1 Mekanik, Undergraduate, 2021 - 2022
İleri Fizik Uygulamaları I, Undergraduate, 2020 - 2021
Fizik 1 - Mekanik, Undergraduate, 2020 - 2021
Nükleer Spektroskopi I, Doctorate, 2019 - 2020, 2013 - 2014
İleri Fizik, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Nükleer Spektroskopi II, Doctorate, 2015 - 2016, 2013 - 2014
Fizik I, Undergraduate, 2013 - 2014
Fizik II, Undergraduate, 2013 - 2014

Advising Theses

Çakırlı Mutlu R. B., Investigation of the effect of different chemical additives on glass shielding materials that can be used in radiology units by using monte carlo method, Doctorate, D.Şen(Student), 2021
ÇAKIRLI MUTLU R. B., Hidrojen Benzeri $^{142}\text{Pm}60+$ İyonlarının Deneysel Depolama Halkası'ndaki (DDH) Yörüngesel Elektron Yakalama Bozunumunun İncelenmesi, Doctorate, F.Çağla(Student), 2017
ÇAKIRLI MUTLU R. B., Sonlu-N etkisi katılarak B(E2) değerleri ve Mikhailov analizi ile Z-gamma hesaplamaları, Postgraduate, D.Şen(Student), 2016
ÇAKIRLI MUTLU R. B., Kısmi Dinamik Simetrijlerin Nükleer Çekirdeklerde Testleri, Postgraduate, E.Çevik(Student), 2016
ÇAKIRLI MUTLU R. B., Farklı Nükleer Kütle Modellerinin δV_{pn} Değerleri Kullanılarak Analizi, Postgraduate, D.Tarhan(Student), 2012

Jury Memberships

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, March, 2023
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, October, 2022
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, March, 2022
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, September, 2021
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, May, 2021
Associate Professor Exam, Associate Professor Exam, İstanbul University, January, 2021
Associate Professor Exam, Associate Professor Exam, İstanbul University, October, 2020
Associate Professor Exam, Associate Professor Exam, İstanbul University, March, 2020
Academic Staff Examination, Academic Staff Examination, İstanbul Üniversitesi, January, 2020
Academic Staff Examination, 100/2000 YÖK Doktora Bursu Mülakat, 100/2000 YÖK Doktora Bursu, August, 2019
Academic Staff Examination, Fizik Anabilim Dalı programı lisansüstü öğrenci mülakat, İstanbul Üniversitesi, July, 2019
Associate Professor Exam, 2019 Mart Dönemi Doçentlik Jürisi (yayın aşaması), 2019 Mart Dönemi Doçentlik Jürisi, March, 2019
Academic Staff Examination, Academic Staff Examination, İstanbul Üniversitesi, January, 2019
Doctoral Examination, Fulya Halıcılar Doktora Yeterlik, Boğaziçi Üniversitesi, December, 2018
Post Graduate, Şefika Çokçoşkun Yüksek Lisans Tez Savunma, İstanbul Üniversitesi, December, 2018
Associate Professor Exam, 2018 Ekim Dönemi Doçentlik Jürisi (yayın aşaması), 2018 Ekim Dönemi Doçentlik Jürisi, October, 2018
Post Graduate, Yüksek Lisans Tez Savunması, İstanbul Üniversitesi, December, 2014
Doctoral Examination, Doktora Yeterlilik Sınav Komitesi, İstanbul Üniversitesi, May, 2014
Post Graduate, Yüksek Lisans Tez Savunması, İstanbul Üniversitesi, June, 2013
Doctoral Examination, Doktora Yeterlilik Sınavı, İstanbul Üniversitesi, June, 2013
Doctoral Examination, Doktora Yeterlilik Sınavı, İstanbul Üniversitesi, June, 2013
Doctoral Examination, Doktora Yeterlilik Sınavı, İstanbul Üniversitesi, May, 2013

Supported Projects

ÇAKIRLI MUTLU R. B., Other International Funding Programs, Partner Group, 2013 - Continues

ÇAKIRLI MUTLU R. B., Project Supported by Higher Education Institutions, Enhanced proton-neutron interactions in heavy nuclei, 2015 - 2018

ÇAKIRLI MUTLU R. B., ÖZTÜRK F. Ç., Project Supported by Higher Education Institutions, Hidrojen Benzeri $^{142}\text{Pm}60+$ İyonlarının Deneysel Depolama Halkası'ndaki (DDH) Yörüngesel Elektron Yakalama Bozunumunun İncelenmesi, 2015 - 2018

ÇAKIRLI MUTLU R. B., ŞAHİN YALÇIN L., SÜSOY DOĞAN G., ÖZTÜRK F. Ç., ÖKTEM Y., AKKUŞ B., Project Supported by Higher Education Institutions, Deforme çekirdeklerde Zgamma değerleri ve ^{152}Nd çekirdeği, 2015 - 2018

SUSAM L., KHOLMETSKIİ A., ÖKTEM Y., AKKUŞ B., ÇAKIRLI MUTLU R. B., Project Supported by Higher Education Institutions, Mössbauer Deneysel Düzenliği ile Rotor Deneysel, 2014 - 2017

ÇAKIRLI MUTLU R. B., Project Supported by Higher Education Institutions, Atomic mass measurements with both a storage ring and FT-ICR detection, and a new magic number for Ca at $N=32$, 2013 - 2017

ÇAKIRLI MUTLU R. B., ÖKTEM Y., ÖZTÜRK F. Ç., GANİOĞLU E., Project Supported by Higher Education Institutions, $B_{4/2} = B(E2:4^+ \rightarrow 2^+) / B(E2:2^+ \rightarrow 0^+) < 1$ anomalisi olan kolektif çekirdeklerin Yrast 2^+ , 4^+ ve 6^+ seviyelerinin yarı ömür ölçümleri, 2012 - 2017

ÇAKIRLI MUTLU R. B., AKKUŞ B., ÖKTEM Y., ŞAHİN YALÇIN L., KURT A., Project Supported by Higher Education Institutions, Nükleer Fizik Alt Yapı Laboratuvarı : Radon Ölçüm Sistemleri, 2013 - 2016

Yavaş Ö., Akkuş B., Özkorucuklu S., Öktem Y., Şahin Yalçın L., Demir B., Ganioglu Nutku E., Çakırlı Mutlu R. B., Susam L., Küçer R., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezinin Teknik Tasarımı ve Test Laboratuvarlarının Kurulması, 2011 - 2015

ÇAKIRLI MUTLU R. B., Project Supported by Higher Education Institutions, Shell structure, emerging collectivity, p-n interactions, 2013 - 2013

ÇAKIRLI MUTLU R. B., Project Supported by Higher Education Institutions, Farklı Nükleer Kütle Modellerinin dV_{pn} Değerleri Kullanılarak Analizi, 2011 - 2013

ÇAKIRLI MUTLU R. B., Project Supported by Higher Education Institutions, EuNPC2012, the Second European Nuclear Physics Conference, 2012 - 2012

ÇAKIRLI MUTLU R. B., ÖKTEM Y., AKKUŞ B., Other International Funding Programs, Atomik Kütle Ölçümleri ve Nükleer Spektroskopisi ile Teorik ve Deneysel Nükleer Fizik Çalışmaları ve Uygulamaları, 2009 - 2011

ÇAKIRLI MUTLU R. B., AKKUŞ B., Other International Funding Programs, Stabil ve Radyoaktif Hüzme ve Çok Detektörlü Sistemlerle Nükleer Yapı Fiziği Çalışmaları ve Uygulamaları, 2004 - 2005

Activities in Scientific Journals

Canadian Journal of Physics, Assistant Editor/Section Editor, 2018 - 2019

Canadian Journal of Physics, Assistant Editor/Section Editor, 2017 - 2018

Memberships / Tasks in Scientific Organizations

European Physical Society-Nuclear Physics Division, Member, 2016 - Continues, Turkey

Türk Fizik Derneği, Member, 2001 - Continues

European Physical Society-Nuclear Physics Division, Secretary General, 2018 - 2020, Turkey

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Yıldız Technical University, Turkey, March 2021

PHYSICS LETTERS B, SCI Journal, December 2020

Project Supported by Higher Education Institutions, BAP Other, Yildiz Technical University, Turkey, December 2020

PHYSICAL REVIEW C, SCI Journal, August 2020

PHYSICAL REVIEW C, SCI Journal, June 2020

Physical Review C, SCI Journal, April 2020

Physics Letters, SCI Journal, September 2019

Physical Review C - Rapid Communication, SCI Journal, February 2019

Nuclear Physics A, SCI Journal, May 2018

Physical Review Letters, SCI Journal, January 2016

Physical Review C- Rapid Comm., SCI Journal, December 2015

Annals of Physics, Other journals, July 2013

Balkan Physics Letters, Other Indexed Journal, April 2013

International Journal of Mass Spectrometry, SCI Journal, March 2013

European Journal of Physics A, SCI Journal, March 2013

Physical Review C, SCI Journal, February 2012

Physical Review Letters, SCI Journal, January 2012

Scientific Research / Working Group Memberships

NUSTAR, İSTANBUL ÜNİVERSİTESİ, Turkey, <http://www.fair-center.eu/for-users/experiments/nustar/nustar-collaboration/members.html>, 2010 - Continues

CERN-ISOLDE-ISOLTRAP, İSTANBUL ÜNİVERSİTESİ, Turkey, 2006 - Continues

Congress and Symposium Activities

TFD-35, Attendee, Muğla, Turkey, 2019

TFD-34, Attendee, Muğla, Turkey, 2018

BPU-10, Attendee, Sofija, Bulgaria, 2018

NuSTAR, Attendee, Darmstadt, Germany, 2018

SSNET-2017, Attendee, Paris, France, 2017

SDANCA-2017, Attendee, Sofija, Bulgaria, 2017

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

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

10th Balkan Physical Union Student Congress, Attendee, İstanbul, Turkey, 2013

TFD 9. Uluslararası Parçacık Hızlandırıcıları ve Detektörleri Yaz Okulu, Attendee, Bodrum, Turkey, 2013

Türk Fizik Derneği 30. Uluslararası Fizik Kongresi, Attendee, İstanbul, Turkey, 2013

INPC 2013, Attendee, Turkey, 2013

Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Attendee, Bodrum, Turkey, 2012

2nd European Nuclear Physics Conference (EuNPC201), Attendee, Bükreş, Romania, 2012

Nuclear Structure and Dynamics II, Attendee, Opatija, India, 2012

Cocoyoc Nükleer fizik toplantısı (Franco Iachello için), Attendee, Cocoyoc, Mexico, 2012

Nuclear structure seen through ground-state properties of exotic nuclei, Attendee, Trento, Italy, 2011

Türk Fizik Derneği 28th Uluslararası Fizik Kongresi, Attendee, Bodrum, Turkey, 2011

Elektrostatik İyon Trap ları ile Beta-Bozunmaları, Attendee, Rehovot, Israel, 2011

European Radioactive Ion Beam Conference (EURORIB), Attendee, Lamoura, France, 2010

DPG Spring Meeting (II), Attendee, Bonn, Germany, 2010

7th Turkish Accelerator Center Workshop, Attendee, Kayseri, Turkey, 2009

Turkish Physical Society, 25th International Physics Congress, Attendee, Bodrum, Turkey, 2008

Balkan Physical Union, First International Physics Symposium and Festival & Inter-University Physics Project

Competition, Attendee, Bodrum, Turkey, 2007
Turkish Physical Society, 24th International Physics Congress, Attendee, Malatya, Turkey, 2007
International School of Physics "Enrico Fermi" Course CLXIX, Attendee, Varenna-Como Lake, Italy, 2007
Twenty Sixth International Workshop on Nuclear Theory, Attendee, Rila, Bulgaria, 2007
3rd Turkish Accelerator Center Workshop, Attendee, Ankara, Turkey, 2007
Annual meeting of the German Physical Society in the section on Mass Spectrometry at Duesseldorf, Attendee, Düsseldorf, Germany, 2007
2nd Turkish Accelerator Center Workshop, Attendee, Bolu, Turkey, 2006
3rd Workshop on Shape Phase Transitions and Critical Point Phenomena in Nuclei, Attendee, Greece, Greece, 2006
Turkish Physical Society, 2nd Summer School On Particle Accelerators and Detectors, Attendee, Bodrum, Turkey, 2006
6th International Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2006
Symmetries and low-energy Phase Transitions in Nuclear-Structure Physics, Attendee, Camerino, Italy, 2005
2005 Dünya Fizik Yılı, Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, Attendee, Bodrum, Turkey, 2005
2005 Second Joint Meeting of the Nuclear Physics Division of the APS and JPS, Attendee, Hawaii-Maui, United States Of America, 2005
Nuclear structure Physics Near the Coulomb Barrier : Into the 21st Century, Attendee, New Haven - CT, United States Of America, 2005
2005 Spring Meeting of the Division of Nuclear Physics of the American Physical Society, Attendee, Tampa-Florida, United States Of America, 2005
Türk Fizik Derneği 22. Fizik Kongresi, Attendee, Bodrum, Turkey, 2004
2003 Fall Meeting of the Division of Nuclear Physics of the American Physical Society, Attendee, Tucson-Arizona, United States Of America, 2003
NATO Colaborative Linkage Grant project, Attendee, İstanbul, Turkey, 2002
SEENet (South East European Nuclear Physics Network), Attendee, İstanbul, Turkey, 2002
3rd International Balkan School on Nuclear Physics, Attendee, Thessaloniki, Greece, 2002
First Hellenic-Turkish International Physics Conference, Attendee, Bodrum-Kos (Yunanistan), Turkey, 2001
The Second International Balkan Workshop on Nuclear Physics, Attendee, Edirne, Turkey, 2001

Invited Talks

EMPIRICAL APPROACH TO NUCLEAR STRUCTURE : P-N INTERACTIONS AND NEUTRON-CAPTURE CROSS SECTIONS, Conference, Turkish Physical Society, Turkey, September 2021
Empirical approach to nuclear structure with masses and neutron-capture cross sections, Workshop, SDANCA-21, Bulgaria, September 2021

Awards

ÇAKIRLI MUTLU R. B., Prof.Dr. Engin Arık Bilim Ödülü, Türk Fizik Derneği, September 2019
ÇAKIRLI MUTLU R. B., Partner (Eş) Grup Projesi, ALMANYA, January 2016
ÇAKIRLI MUTLU R. B., GEBİP, TÜBA, June 2014
ÇAKIRLI MUTLU R. B., Partner (Eş) Grup Projesi, ALMANYA, July 2013
ÇAKIRLI MUTLU R. B., 2013 Dünyanın En İyi Genç Nükleer Fizikçisi, IUPAP, June 2013
ÇAKIRLI MUTLU R. B., Prof.Dr. Şevket Erk Genç Bilim İnsanı Ödülü, Türk Fizik Derneği, September 2006

Non Academic Experience

Yale Üniversitesi
Yale Üniversitesi

