

## Assoc. Prof. NECLA ÇAKMAK

### Personal Information

**Office Phone:** [+90 370 418 9211](tel:+903704189211) Extension: 9211

**Fax Phone:** [+90 370 418 7262](tel:+903704187262)

**Email:** [neclac@karabuk.edu.tr](mailto:neclac@karabuk.edu.tr)

**Other Email:** [neclacakmak@gmail.com](mailto:neclacakmak@gmail.com)

**Web:** <https://avesis.karabuk.edu.tr/neclac>

**Address:** Karabük Üniversitesi Yükseköğretim Binası B Blok Fen Fakültesi Fizik Bölümü KARABÜK

### Education Information

Doctorate, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2005 - 2008

Post Graduate, Anadolu University, Institute Of Science, Fizik (YI) Tezli, Turkey 2002 - 2005

Under Graduate, Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1997 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Tek Çekirdeklerde Yük Değişimli Etkileşmelerinin Pyatov Yöntemi İle İncelenmesi, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2008

Post Graduate, Hoffmann pn-Tipi Konak Aromatik Konuk Sistemlerin Kırmızı-Altı Spektroskopik Bölgesinde İncelenmesi, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) Tezli, 2005

### Research Areas

Physics, Astronomy and Astrophysics, Astronomy and Astrophysics: Instrumentation Techniques and Observations, Nuclear physics, Properties of Nuclei, Nuclear Structure, Radioactive decay and in-beam spectroscopy, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Karabük Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2016 - Continues

Assistant Professor, Karabük Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2009 - 2016

### Professional Experience

Vice Dean, Karabuk University, Fen Fakültesi, 2020 - Continues

Head of Department, Karabük Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2017 - Continues

Head of Department, Karabük Üniversitesi, Sağlık Bilimleri Enstitüsü, Nükleer Tıp Fiziği Anabilim Dalı (Disiplinlerarası), 2013 - Continues

Head of Department, Karabuk University, Fen Fakültesi, Fizik, 2009 - Continues  
Ethics Committee Member, Karabuk University, Tıp Fakültesi, 2018 - 2019  
Eğitim ve Müfredat Kurulu üyesi, Karabuk University, Fen Fakültesi, Fizik, 2017 - 2019  
Member of the Commission, Karabuk University, Fen Fakültesi, 2012 - 2019

## Courses

YL SEMİNER, Post Graduate, 2019 - 2020  
FİZİK II (Elektromanyetizma), Under Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020  
ELEKTROMANYETİK TEORİ II, Post Graduate, 2019 - 2020  
DOKTORA SEMİNER, Doctorate, 2019 - 2020  
İLERİ NÖTRON VE REAKTÖR FİZİĞİ, Doctorate, 2019 - 2020  
BİLİM TARİHİ VE FELSEFESİ, Under Graduate, 2018 - 2019, 2019 - 2020  
FİZİK I (Mekanik), Under Graduate, 2017 - 2018, 2019 - 2020  
MATEMATİKSEL FİZİKTE SEÇME KONULAR, Doctorate, 2019 - 2020  
DOKTORA UZMANLIK ALANI, Doctorate, 2019 - 2020  
BİYOFİZİK, Under Graduate, 2017 - 2018  
KUANTUM MEKANİĞİ I, Doctorate, 2017 - 2018  
KUANTUM MEKANİĞİ II, Doctorate, 2017 - 2018  
KUANTUM MEKANİĞİNE GİRİŞ, Under Graduate, 2016 - 2017  
YL TEZ ÇALIŞMASI, Post Graduate, 2017 - 2018  
KLASİK MEKANİK, Under Graduate, 2016 - 2017  
YL UZMANLIK ALANI, Post Graduate, 2017 - 2018  
İLERİ NÜKLEER TEKNOLOJİLER, Under Graduate, 2016 - 2017  
BİYOFİZİK, Under Graduate, 2017 - 2018

## Advising Theses

ÇAKMAK N., 190-A-220 kütle aralığındaki çift-çift çekirdeklerde rank 1 birinci yasaklı beta bozunum geçişleri, Post Graduate, N.ÖZDEMİR(Student), 2018  
ÇAKMAK N., Calculation of the half-lives for 117,119,121Te isotopes by Pyatov's method, Post Graduate, Z.ALI(Student), 2018  
ÇAKMAK N., 56,66,68Ni izotoplarının GT ve yük değişimli beta geçiş özelliklerinin incelenmesi, Post Graduate, S.KAYHAN(Student), 2017  
ÇAKMAK N., Bazı demir izotopları için Gamow-Teller geçiş özelliklerinin incelenmesi, Post Graduate, Ş.DUYGU(Student), 2017  
ÇAKMAK N., 90-A-214 kütle bölgesindeki küresel çekirdekler için 0+1- birinci yasaklı beta geçiş nükleer matris elemanlarının hesaplanması, Post Graduate, İ.ÇAYLI(Student), 2012  
ÇAKMAK N., Gama kameraların görüntü kalitesinin artırılmasında fotoçoğaltıcı tüplerin etkisinin incelenmesi, Post Graduate, A.PEHLEVAN(Student), 2011

## Jury Memberships

Post Graduate, Post Graduate, Kırıkkale Üniversitesi, October, 2019  
Doctoral Examination, Doktora Yeterlik Sınavı, KASTAMONU ÜNİVERSİTESİ, May, 2019  
Post Graduate, YL Tez Jüri Üyeliği, KASTAMONU ÜNİVERSİTESİ, January, 2019  
Post Graduate, YL Tez Jürisi, ZONGULDAK BÜLENT ECEVİT ÜNİVERSİTESİ, May, 2017  
Post Graduate, YL Tez Jürisi, BURDUR MEHMET AKİF ERSOY ÜNİVERSİTESİ, January, 2016

Doctorate, Doktora jüri üyeliği, ZONGULDAK BÜLENT ECEVİT ÜNİVERSİTESİ, April, 2015

Doctoral Examination, Doktora yeterlilik sınav, SAKARYA ÜNİVERSİTESİ, March, 2015

Post Graduate, YL Tez Jüri , BURDUR MEHMET AKİF ERSOY ÜNİVERSİTESİ, January, 2012

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **First-forbidden contributions to 2 nu beta(-)beta(-) decay amplitude**  
ÜNLÜ S., ÇAKMAK N., SELAM C.  
NUCLEAR PHYSICS A, vol.970, pp.379-387, 2018 (Journal Indexed in SCI)
- II. **Dipole and spin-dipole strength distributions in Te-124,Te-126,Te-128,Te-130 isotopes**  
ÇAKMAK N., ÇAKMAK Ş., SELAM C., ÜNLÜ S.  
PRAMANA-JOURNAL OF PHYSICS, vol.90, 2018 (Journal Indexed in SCI)
- III. **Unique first-forbidden beta-decay transitions in odd-odd and even-even heavy nuclei**  
Nabi J., ÇAKMAK N., Majid M., SELAM C.  
NUCLEAR PHYSICS A, vol.957, pp.1-21, 2017 (Journal Indexed in SCI)
- IV. **The 2 nu beta(-)beta(-) decay rates within Pyatov's restoration method**  
ÜNLÜ S., ÇAKMAK N., SELAM C.  
NUCLEAR PHYSICS A, vol.957, pp.491-512, 2017 (Journal Indexed in SCI)
- V. **First-forbidden beta-decay rates, energy rates of beta-delayed neutrons and probability of beta-delayed neutron emissions for neutron-rich nickel isotopes**  
Nabi J., ÇAKMAK N., Iftikhar Z.  
EUROPEAN PHYSICAL JOURNAL A, vol.52, 2016 (Journal Indexed in SCI)
- VI. **First-forbidden transitions and stellar beta-decay rates of Zn and Ge isotopes**  
Nabi J., ÇAKMAK N., Stoica S., Iftikhar Z.  
PHYSICA SCRIPTA, vol.90, 2015 (Journal Indexed in SCI)
- VII. **The effect of restoration of broken SU(4) symmetry on 2 nu beta(-)beta(-) decay rates**  
Unlu S., ÇAKMAK N.  
NUCLEAR PHYSICS A, vol.939, pp.13-20, 2015 (Journal Indexed in SCI)
- VIII. **Deformation effects on isospin mixing and isobar analogue resonance for Kr74-80 isotopes**  
AYGÖR H. A. , ÜNLÜ S., ÇAKMAK N., Selam C.  
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.12, pp.490-498, 2014 (Journal Indexed in SCI)
- IX. **Low-lying Gamow-Teller transitions in spherical nuclei**  
Cakmak N., Unlu S., Selam C.  
Physics of Atomic Nuclei, vol.75, pp.8-16, 2012 (Journal Indexed in SCI Expanded)
- X. **Gamow-Teller 1(+) states in Sb112-124 isotopes**  
ÇAKMAK N., ÜNLÜ S., SELAM C.  
PRAMANA-JOURNAL OF PHYSICS, vol.75, pp.649-663, 2010 (Journal Indexed in SCI)
- XI. **The investigation of 0(+) <-> 0(-) beta decay in some spherical nuclei**  
ÇAKMAK N., MANİSA K., ÜNLÜ S., Selam C.  
PRAMANA-JOURNAL OF PHYSICS, vol.74, pp.541-553, 2010 (Journal Indexed in SCI)
- XII. **The Investigation 0 0- of Beta Decay In Some Spherical Nuclei**  
ÇAKMAK N., MANİSA K., ÜNLÜ S., SELAM C.  
Pramana-Journal Of Physics, vol.74, pp.541-553, 2010 (Journal Indexed in SCI)
- XIII. **Gamow Teller 1 States in 112 124Sb Isotopes**  
ÇAKMAK N., ÜNLÜ S., SELAM C.  
Pramana-Journal Of Physics, vol.75, pp.649-663, 2010 (Journal Indexed in SCI)
- XIV. **The investigation of the 2vββ decay by Pyatov method within quasiparticle random phase approximation formalism**  
Unlu S., Babacan T., Cakmak N., Selam C.  
Pramana - Journal of Physics, vol.71, pp.521-528, 2008 (Journal Indexed in SCI Expanded)

- XV. **The Investigation of the Double Beta Decay by Pyatov Method within QRPA Formalism**  
 ÜNLÜ S., BABACAN T., ÇAKMAK N., SELAM C.  
 Pramana-Journal Of Physics, vol.71, pp.521-528, 2008 (Journal Indexed in SCI)
- XVI. **Beta-transition properties for neutron-rich Sn and Te isotopes by Pyatov method**  
 Salamov D., Unlu S., Cakmak N.  
 Pramana - Journal of Physics, vol.69, pp.369-375, 2007 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Effect of deformation on gamow-teller strength and electroncapture cross-section for isotopes of chromium**  
 ULLAH A., RIAZ M., NABI J. U. , BÖYÜKATA M., ÇAKMAK N.  
 Bitlis Eren University Journal of Science and Technology, vol.10, pp.25-29, 2020 (Refereed Journals of Other Institutions)
- II. **First Forbidden  $\beta$ -Decay Logft Values of Neutron Rich Te Isotopes**  
 ÇAKMAK N., ABDUL M.  
 ALKU Journal of Science, pp.45-51, 2019 (National Refreed University Journal)
- III. **Beta decay rates for 50 52Fe isotopes by Pyatov Salamov method**  
 Duygu Ş., Çakmak N.  
 Cumhuriyet Science Journal, vol.37, pp.38-41, 2016 (National Refreed University Journal)
- IV. **The Total Half Lives for Some Nickel Isotopes**  
 Kayhan S., Çakmak N.  
 Cumhuriyet Science Journal, vol.37, pp.33-37, 2016 (National Refreed University Journal)
- V. **Isospin mixing and Fermi transitions for some deformed nuclei**  
 ÜNLÜ S., Aygor H. A. , Cakmak N., Selam C.  
 TURKISH JOURNAL OF PHYSICS, vol.40, pp.304-315, 2016 (Journal Indexed in ESCI)
- VI. **Solution of Angular Parts of the Forbidden Beta Moment Matrix Elements for Rank 0 1 and 2**  
 Çakmak N., İsmail Ç.  
 Cumhuriyet Science Journal, vol.36, pp.24-36, 2015 (National Refreed University Journal)
- VII. **The Dependence of Gamow Teller and Isobaric Analogue Resonances on The Mean Field Parameters**  
 Çakmak N., Ünlü S., Oğuz S.  
 Cumhuriyet Science Journal, vol.36, pp.11-23, 2015 (National Refreed University Journal)
- VIII. **Gamow Teller Strength Distributions for Some Magic Nuclei**  
 Çakmak N., Kayhan S., Ünlü S.  
 Cumhuriyet Science Journal, vol.36, pp.60-69, 2015 (National Refreed University Journal)
- IX. **The Study of Gamow-Teller Transition Strength for Some Odd Mass Isotopes**  
 SELAM C., AYGÖR H. A. , ÇAKMAK N.  
 Azerbaijan Journal of Physics, Fizika, vol.16, pp.524-526, 2010 (Journal Indexed in ESCI)
- X. **Investigation of The Isospin Impurity of The Ground State for 122 134Xe Isotopes**  
 AYGÖR H. A. , ÇAKMAK N., SELAM C.  
 Azerbaijan Journal of Physics, Fizika, vol.16, pp.132-139, 2010 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **BETA DECAY HALF-LIVES OF SOME RADIOISOTOPES PRODUCED IN A THERMONUCLEAR REACTOR**  
 ÇAKMAK N., NABI J. U. , ABDUL M.  
 in: CURRENT ACADEMIC STUDIES IN NATURAL SCIENCE AND MATHEMATICS SCIENCES-2018, KANDEMİR Mehmet Ali, ERDOĞAN Fatma, Editor, Gece Kitaplığı, pp.255-264, 2018
- II. **RANK 1 FIRST FORBIDDEN BETA TRANSITIONS OF EVEN-EVEN NUCLEI IN MASS REGION OF**

190 ≤ A ≤ 220

ÇAKMAK N., ÖZDEMİR N.

in: CURRENT ACADEMIC STUDIES IN NATURAL SCIENCE AND MATHEMATICS SCIENCES-2018, KANDEMİR Mehmet Ali, ERDOĞAN Fatma, Editor, Gece Kitaplığı, pp.265-272, 2018

III. **Nötron Zincir Reaksiyonları (Bölüm 16)**

Çakmak N.

in: Nükleer Enerji Nükleer Süreçlerin Kavramları Sistemleri ve Uygulamalarına Giriş, A.H.Yılmaz, A.Aydın, T.Bayram, S.Akkoyun, A.A.Billur, Editor, Nobel Yayın Dağıtım, Ankara, pp.259-272, 2015

## Refereed Congress / Symposium Publications in Proceedings

- I. **Form factor calculations for some light nuclei in the framework of electron scattering**  
A Abbas S., H Mahdi K., ÇAKMAK N.  
TMREES Conference Series, Atina, Greece, 25 - 27 June 2020
- II. **Investigation of Fermi Beta Transitions in Some Deformed Krypton (Kr) Isotopes**  
ÇAKMAK N., SELAM C., ÜNLÜ S., AYGÖR H. A.  
3rd Pak-Turk International Conference on Emerging Technologies in the field of Sciences and Engineering, Islamabad, Pakistan, 9 - 10 June 2020
- III. **Thermoelectric Devices for Renewable Energy Harvesting: An Overview**  
Karimov K. S. , Bashir M. M. , Nabi J. U. , Çakmak N.  
7TH INTERNATIONAL SYMPOSIUM ON DEVELOPMENT OF KOP REGION, Kırıkkale, Turkey, 17 - 19 October 2019, pp.346-351
- IV. **Comparative Analysis of Semitransparent Photo-Thermoelectric Cells Based on Bi<sub>2</sub>Te<sub>3</sub> and It's Composites for Solar Energy Harvesting**  
Karimov K. S. , Bashir M. M. , Nabi J. U. , Çakmak N.  
7TH INTERNATIONAL SYMPOSIUM ON DEVELOPMENT OF KOP REGION, Kırıkkale, Turkey, 17 - 19 October 2019, pp.341-345
- V. **First forbidden beta transitions of 1/2 ↔ 1/2- states for ΔJ=0 in spherical odd mass nuclei**  
SELAM C., ÇAKMAK N.  
NSP2018, Trabzon, Turkey, 12 - 14 September 2018
- VI. **Effect of deformation on Gamow-Teller Strength and Electron Capture Cross-section for Chromium Isotopes (46-50Cr) using pnQRPA**  
ULLAH A., RIAZ M., NABI J., BÖYÜKATA M., ÇAKMAK N.  
NSP 2019, Bitlis, Turkey, 11 - 13 September 2019, pp.57
- VII. **Allowed GT and First Forbidden Transitions in 71,73,75Se Isotopes**  
ÇAKMAK N., SELAM C.  
NSP 2019, Bitlis, Turkey, 11 - 13 September 2019, pp.48
- VIII. **Half-Life of the Medical Radioisotope Lu-177 for Targeted Radionuclide Therapy**  
ÇAKMAK N., NABI J., SELAM C.  
NSP 2019, Bitlis, Turkey, 11 - 13 September 2019, pp.49
- IX. **Half-life values for first-forbidden transitions of the even mass Au isotopes within pn-QRPA**  
ÇAKMAK N., SELAM C.  
TESNAT 2019, Amasya, Turkey, 2 - 04 May 2019, pp.270-272
- X. **Beta decay half-lives for Pr, Nd, Sm, Gd isotopes in mass range A=142 by Pyatov's Method**  
ÇAKMAK N., SELAM C.  
TESNAT 2019, Amasya, Turkey, 2 - 04 May 2019, pp.273-275
- XI. **Some Nuclear and Magnetic Properties of Fe-Co and Co-Ni Alloys**  
ÇAKMAK N., BALDIK R., KANBUR U.  
Fourth International Iron and Steel Symposium (UDCS'19), Karabük, Turkey, 4 - 06 April 2019, pp.246-249
- XII. **A Theoretical Study on the Total Cross Sections of the Natural Iron Isotopes**

ÇAKMAK N., BALDIK R.

Fourth International Iron and Steel Symposium (UDCS'19), Karabük, Turkey, 4 - 06 April 2019, pp.138-141

- XIII. **Beta decay rates of r-process N=126 waiting point nuclei in pn-QRPA**  
ÇAKMAK N.  
ETSE 2019, Islamabad, Pakistan, 11 - 12 March 2019, pp.19
- XIV. **UNIQUE FIRST-FORBIDDEN  $\beta$ -DECAY TRANSITIONS IN ODD MASS NUCLEI**  
ÇAKMAK N., SELAM C.  
NSP2018, Trabzon, Turkey, 12 - 14 September 2018, pp.39
- XV. **FIRST-FORBIDDEN  $\beta$ -DECAY Logft VALUES OF NEUTRON RICH Te ISOTOPES**  
ABDUL M., ÇAKMAK N., NABI J. U., SELAM C.  
NSP2018, Trabzon, Turkey, 12 - 14 September 2018
- XVI. **Rank1 first forbidden beta decay transitions in odd mass nuclei**  
ÇAKMAK N.  
First International Pak-Turk Workshop on Emerging Technologies in the Field of Sciences Engineering, Pakistan, 09 May 2018
- XVII. **Investigation of Gamow-Teller Transition Properties of The Ca-47 and Sc-47 Isotopes By Pyatov's Method**  
AYGÖR H. A., ÇAKMAK N., SELAM C.  
X. International Conference On Nuclear Structure Properties. NSP2017, 20 - 22 September 2017, pp.78
- XVIII. **First Forbidden Beta Decay Matrix Elements and The Logft Values in 170Tm**  
ÇAKMAK N., ÖZDEMİR N., SELAM C.  
NSP2017, 20 - 22 September 2017, pp.85
- XIX. **Calculation of Gamow-Teller Logft Values For 127-129Ba Isotopes with Pyatov's Method**  
ÇAKMAK N., ALWASI Z. A. A., SELAM C.  
NSP2017, 20 - 22 September 2017, pp.115
- XX. **Calculation of The Half-Lives For Sr-85 nucleus within pn-QRPA**  
ÇAKMAK N., SELAM C.  
NSP2017, 20 - 22 September 2017, pp.79
- XXI. **Charge-Exchange Dipole and Spin-Dipole Excitations In Odd Mass Nuclei**  
SELAM C., ÇAKMAK N., ÜNLÜ S., ÇAKMAK Ş.  
NSP2017, 20 - 22 September 2017, pp.25
- XXII. **Ti-44 İzotopu İçin Birinci Yasaklı Beta Geçişlerinin İncelenmesi**  
ÖZDEMİR N., ÇAKMAK N.  
ADIM FİZİK GÜNLERİ VI, Balıkesir, Turkey, 19 - 21 July 2017, pp.174
- XXIII. **Charge exchange spin-dipole excitations in spherical nuclei ( $0 \leftrightarrow 0$ -transitions)**  
SELAM C., ÇAKMAK Ş., ÇAKMAK N., ÜNLÜ S.  
TESNAT 2017, 10 - 12 May 2017, pp.34
- XXIV. **The study of dipole and spin dipole strength distributions in Sn isotopes**  
ÇAKMAK Ş., ÜNLÜ S., ÇAKMAK N., SELAM C.  
TESNAT 2017, 10 - 12 May 2017, pp.36
- XXV. **DJ=2 first forbidden beta-decay transitions in even-even heavy nuclei**  
ÇAKMAK N., ÜNLÜ S., ÇAKMAK Ş., SELAM C.  
TESNAT 2017, 10 - 12 May 2017, pp.41
- XXVI. **The allowed GT half-lives for 117,119,121Te isotopes by Pyatov method**  
ÇAKMAK N., ALWASI Z. A. A., SELAM C.  
TESNAT 2017, 10 - 12 May 2017, pp.42
- XXVII. **The examination of the MDA change and the time until the excretion of the Tc-99m radionuclide found in radiopharmaceutical used in nephro-urological nuclear medicine methods of 0-15 years children**  
ÖZDEMİR N., ÖZDEMİR S., ÇAKMAK N.  
TESNAT 2017, 10 - 12 May 2017, pp.198

- XXVIII. **Two-neutrino double beta decay rates for some spherical nuclei**  
 ÜNLÜ S., ÇAKMAK N., ÇAKMAK Ş., SELAM C.  
 TESNAT 2017, 10 May 2017, pp.35
- XXIX. **Calculation of the half lives for some Iron isotopes by Pyatov method**  
 DUYGU Ş., ÇAKMAK N.  
 IX.International Workshop on Nuclear Structure Properties, Sivas, Turkey, 1 - 03 September 2016
- XXX. **The investigation of Gamow Teller strengths for neutron rich nickel isotopes**  
 KAYHAN S., ÇAKMAK N.  
 IX.International Workshop on Nuclear Structure Properties, Sivas, Turkey, 1 - 03 September 2016
- XXXI. **Isospin mixing in the ground states of some deformed nuclei**  
 ÜNLÜ S., AYGÖR H. A. , ÇAKMAK N., SELAM C.  
 IX.International Workshop on Nuclear Structure Properties, Sivas, Turkey, 1 - 03 September 2016
- XXXII. **Investigation of Gamow Teller transitions in some odd spherical nuclei by Pyatov Method**  
 ÇAKMAK N., ALWASI Z. A. A. , SELAM C.  
 IX.International Workshop on Nuclear Structure Properties, Sivas, Turkey, 1 - 03 September 2016
- XXXIII. **Calculation of beta decay half lives for some odd mass Ge Isotopes by Pyatov s Restoration Method**  
 ÇAKMAK N., ÜNLÜ S., SELAM C.  
 VIII. International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015
- XXXIV. **Quasi Particle Random Phase Approximation Analysis of the Double Beta Decay of 46 48Ca Isotopes to the final Ground States**  
 ÜNLÜ S., ÇAKMAK N.  
 VIII. International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015
- XXXV. **Calculation of Total Beta Decay Half lives for some Zinc Isotopes by pn QRPA Method**  
 ÇAKMAK N.  
 VIII. International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015
- XXXVI. **First forbidden beta decay rates on Zn and Ge isotopes for speeding up r process calculations**  
 JAMEEL UN N., ÇAKMAK N., SABIN S., ZAFAR I.  
 International Conference on Relativistic Astrophysics 2015, Lahore, Pakistan, 10 - 14 February 2015
- XXXVII. **Exchange of Scientists and Technical Experts between Pakistan and Turkey**  
 ÇAKMAK N.  
 SDSU International Seminar On Alternative Energy Solutions For pakistan, Islamabad, Pakistan, 12 - 13 April 2015
- XXXVIII. **Investigation on Effects of Photomultiplier Tubes on Improving the Image Quality of Gamma Cameras**  
 ÇAKMAK N., ALİ P.  
 VI. International Workshop on Nuclear Structure Properties, 18 - 20 September 2013
- XXXIX. **0 Geçiş Matris Elemanlarının Radyal İntegrallerinin Woods Saxon Potansiyeli Parametrelerine Bağlılığının İncelenmesi**  
 SELAM C., ÇAKMAK N.  
 5. Nükleer Yapı Özellikleri Çalıştayı, Turkey, 12 - 14 October 2011
- XL. **1 Beta Geçişlerinin Nükleer Matris Elemanlarının Hesaplanması**  
 İSMAİL Ç., ÇAKMAK N., SELAM C.  
 5. Nükleer Yapı Özellikleri Çalıştayı, Turkey, 12 - 14 October 2011
- XLI. **First Forbidden Decays in odd odd nuclei**  
 ÇAKMAK N., MANİSA K., ÜNLÜ S., SELAM C.  
 NSRT2009, DUBNA, Russia, 30 June - 04 July 2009
- XLII. **Investigation of The GT Excitations In Odd Mass Nuclei By Pyatov Method**  
 SELAM C., ÜNLÜ S., ÇAKMAK N.  
 International Conference Nuclear Structure and Related Topics (NSRT2009), 30 June - 04 July 2009
- XLIII. **Investigation of isospin admixture in the ground states in the 126 140Ba isotopes by the Pyatov Method**  
 AYGÖR H. A. , MARAŞ İ., ÇAKMAK N., SELAM C.  
 International Conference Nuclear Structure and Related Topics (NSRT2009), DUBNA, Russia, 30 June - 04 July

2009

- XLIV. **The isospin admixture of the ground state and the properties of the isobar analog resonances in deformed nuclei**  
Aygör H. A. , Çakmak N., Maras I., Selam C.  
International Conference on Nuclear Physics and Astrophysics: From Stable Beams to Exotic Nuclei 2008, Cappadocia-Nevsehir, Turkey, 25 - 30 June 2008, vol.1072, pp.310-313
- XLV. **Investigation of GT Strength Distributions in Some Stable N Z Nuclei By Pyatov Method**  
ÜNLÜ S., BABACAN T., ÇAKMAK N., SELAM C.  
NUFRA2007, 24 September - 01 October 2007
- XLVI. **Charge Exchange 0 Vibration Modes In Odd Odd Nuclei**  
ÇAKMAK N., SELAM C., KÜÇÜKBURSA A., MANİSA K., ÜNLÜ S.  
NUFRA2007, Antalya, Turkey, 24 September - 01 October 2007
- XLVII. **The Investigation Of Isospin Structure Of The Isobar Analogue Resonances By Pyatov Method**  
ÇALIK A. E. , GERÇEKLİOĞLU M., SELAM C., ÇAKMAK N.  
International Nuclear Physics Conference, Tokyo, Japan, 3 - 08 June 2007
- XLVIII. **The Investigation Of Superallowed Beta Decay By Pyatov Method**  
SELAM C., ÇALIK A. E. , GERÇEKLİOĞLU M., ÇAKMAK N.  
International Nuclear Physics Conference, 3 - 08 June 2007
- XLIX. **0 Geçiş Matris Elemanlarının Saxon Woods Potansiyeli Bazında Hesaplanması**  
SELAM C., MANİSA K., ÇAKMAK N., KÜÇÜKBURSA A.  
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## Supported Projects

Çakmak N., Universities of Other Countries Supported Project, Beta decay properties and thermonuclear reaction rates of reactor produced radioisotopes, 2018 - 2020

ÇAKMAK N., Project Supported by Higher Education Institutions, 90A214 KÜTLE BÖLGESİNDEKİ KÜRESEL ÇEKİRDEKLER İÇİ 0-1 BİRİNCİ YASAKLI BETA GEÇİŞ NÜKLEER MATRİS ELEMANLARININ HESAPLANMASI, 2012 - 2013

Babacan T., Selam C., TUBITAK Project, Pyatov Salamov Yöntemi ile Bazı Küresel Çekirdeklere Gamow Teller Geçiş Özelliklerinin İncelenmesi, 2005 - 2008

## Tasks In Event Organizations

Çakmak N., VI. ULUSLARARASI NÜKLEER YAPI ÖZELLİKLERİ KONFERANSI, Scientific Congress, Karabük, Turkey, Eylül 2013

Çakmak N., V. NÜKLEER YAPI ÖZELLİKLERİ ÇALIŞTAYI, Scientific Congress, Muş, Turkey, Ekim 2010

Çakmak N., II. NÜKLEER YAPI ÖZELLİKLERİ ÇALIŞTAYI, Scientific Congress, Eskişehir, Turkey, Eylül 2006

Çakmak N., NÜKLEER YAPI ÖZELLİKLERİ ÇALIŞTAYI, Scientific Congress, Eskişehir, Turkey, Eylül 2005



## **Invited Congress and Symposium Activities**

COST Action CA15213 THOR Annual Meeting, Attendee, İstanbul, Turkey, 2019

NSP 2019, Attendee, Bitlis, Turkey, 2019

TESNAT 2019, Attendee, Amasya, Turkey, 2019

ETSE 2019, Invited Speaker, Islamabad, Pakistan, 2019

ISMS 2018, Working Group, Ankara, Turkey, 2018

NSP 2018, Attendee, Trabzon, Turkey, 2018

ETSE 2018, Invited Speaker, Islamabad, Pakistan, 2018

NSP 2017, Attendee, Karabük, Turkey, 2017

TESNAT 2017, Attendee, Adana, Turkey, 2017

NUFRA 2009, Attendee, Antalya, Turkey, 2009

ICNS 2009, Attendee, Moscow, Russia, 2009

NUFRA 2007, Attendee, Antalya, Turkey, 2007

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Investigation of the Relativistic pn-QRPA Method, YOK, 2012 - 2012