

Prof. RECEP TAYGUN GÜRAY

Personal Information

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Education Information

Doctorate, The Ohio State University, Graduate School / Physics, United States Of America 1994 - 2000

Post Graduate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 1988 - 1992

Under Graduate, Ankara University, Faculty Of Engineering, Department Of Physics Engineering, Turkey 1983 - 1987

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, A Study on $^{15}\text{C}(d,p)^{16}\text{C}$ Reaction and the Role of Neutron Capture by ^{15}C in Big Bang Nucleosynthesis, The Ohio State University, Graduate School / Physics, 2000

Post Graduate, Cs-137 Levels in Surface Soils Over the Black Sea Coast of Turkey, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1992

Research Areas

Physics, Nuclear physics, Special nuclear reactions, Natural Sciences

Academic Titles / Tasks

Professor, Kocaeli Üniversitesi, Fen Edebiyat Fakültesi / Fizik, Fizik, 2019 - Continues

Associate Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi / Fizik, Fizik Bölümü, 2011 - 2019

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi / Fizik, Fizik Bölümü, 2002 - 2011

Assistant Professor, Celâl Bayar Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2001 - 2002

Research Assistant, The Ohio State University, Sanat Ve Bilim/Fizik, Fizik, 1997 - 2000

Research Assistant, Celâl Bayar Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1993 - 2000

Research Assistant, Ankara Üniversitesi, Mühendislik Fakültesi / Fizik Müh., Fizik Mühendisliği Bölümü, 1988 - 1993

Professional Experience

Erasmus Coordinator, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2004 - Continues

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

● **Reaction cross section calculations via second beta decay using the activation method for the p-process**

Tantoglu E, Ozkan N, GÜRAY R. T.

CANADIAN JOURNAL OF PHYSICS, vol.97, pp.1206-1209, 2019 (Journal Indexed in SCI)

● **Investigation of alpha-induced reactions on Sb isotopes relevant to the astrophysical gamma process**

Korkulu Z, Ozkan N, Kiss G. G. , Szucs T, Gyurky G., Fulop Z., GÜRAY R. T. , Halasz Z., Rauscher T., Somorjai E., et al.

PHYSICAL REVIEW C, vol.97, 2018 (Journal Indexed in SCI)

● **Proton capture reaction cross section measurements on Er-162 as a probe of statistical model calculations**

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● **Measurements of Gd-152(p,gamma)Tb-153 and Gd-152(p, n)Tb-152 reaction cross sections for the astrophysical gamma process**

GÜRAY R. T. , Ozkan N., YALÇIN C., Rauscher T., Gyuerky G., FARKAS J., Fueleop Z., HALÁSZ Z., SOMORJAI E.

PHYSICAL REVIEW C, vol.91, 2015 (Journal Indexed in SCI)

● **Test of statistical model cross section calculations for alpha-induced reactions on Ag-107 at energies of astrophysical interest**

YALÇIN C., Gyuerky G., Rauscher T., Kiss G. G. , Ozkan N., GÜRAY R. T. , HALÁSZ Z., Szuecs T., Fueleop Z., FARKAS J., et al.

PHYSICAL REVIEW C, vol.91, 2015 (Journal Indexed in SCI)

● **Measurement of the reaction O-18(alpha, n)Ne-21**

Best A., Falahat S., Goerres J., Couder M., deBoer R., Gueray R. T. , Kontos A., Kratz K. -, LeBlanc P. J. , Li Q., et al.

PHYSICAL REVIEW C, vol.87, 2013 (Journal Indexed in SCI)

● **Measurement of the reaction O-17(alpha,n)Ne-20 and its impact on the s process in massive stars**

Best A., Beard M., Goerres J., Couder M., deBoer R., Falahat S., GÜRAY R. T. , Kontos A., Kratz K. -, LeBlanc P. J. , et al.

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● **Systematic study of the alpha-optical potential via elastic scattering near the Z=50 region for p-process nuclei**

Palumbo A., Tan W. P. , Goerres J., Best A., Couder M., Crowter R., deBoer R. J. , Falahat S., LeBlanc P. J. , Lee H. Y. , et al.

PHYSICAL REVIEW C, vol.85, 2012 (Journal Indexed in SCI)

● **Measurement of Te-120(alpha,n) cross sections relevant to the astrophysical p process**

Palumbo A., Tan W. P. , Goerres J., Wiescher M., Ozkan N., GÜRAY R. T. , YALÇIN C.

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● **Cd-110,Cd-116(alpha,alpha)Cd-110,Cd-116 elastic scattering and systematic investigation of elastic a scattering cross sections along the Z=48 isotopic and N=62 isotonic chains**

Kiss G. G. , MOHR P., Fueleop Z., Gyuerky G., ELEKES Z., FARKAS J., SOMORJAI E., Yalcin C., GALAVÍZ D., GÜRAY R. T. , et al.

PHYSICAL REVIEW C, vol.83, 2011 (Journal Indexed in SCI)

● **Alpha-induced reaction cross section measurements on Eu-151 for the astrophysical gamma-process**

Gyuerky G., Elekes Z., Farkas J., Fueleop Z., Halasz Z., Kiss G. G. , Somorjai E., Szuecs T., GÜRAY R. T. , Ozkan N., et al.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.37, 2010 (Journal Indexed in SCI)

● **Measurements of proton-induced reaction cross sections on Te-120 for the astrophysical p process**

GÜRAY R. T. , Ozkan N., YALÇIN C., Palumbo A., deBoer R., Gorres J., Leblanc P. J. , O'Brien S., Strandberg E., Tan W. P. , et al.

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● **Odd p isotope In-113: Measurement of alpha-induced reactions**

Yalcin C., GÜRAY R. T. , Ozkan N., KUTLU S., Gyurky G., FARKAS J., Kiss G. G. , Fulop Z., SÍMON A., SOMORJAI E., et al.

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● **Astrophysical S factor for alpha-capture on Sn-112 in the p-process energy range**

Ozkan N., EFE G., Guray R. T. , PALUMBO A., GÖRRES J., Lee H. Y. , Lamm L. O. , RAPP W., STECH E., WIESCHER M., et al.

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alpha-induced cross sections of Cd-106 for the astrophysical p process

Gyurky G., Kiss G. G. , ELEKES Z., Fulop Z., SOMORJAI E., PALUMBO A., GÖRRES J., Lee H. Y. , RAPP W., WIESCHER M., et al.

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A study of alpha capture cross-sections of Sn-112

Ozkan N., EFE G., GÜRAY R. T. , Palumbo A., Wiescher M., Goerres J., Lee H. -, Gyuerky G., SOMORJAI E., FUELOEP Z.

EUROPEAN PHYSICAL JOURNAL A, vol.27, pp.145-148, 2006 (Journal Indexed in SCI)

Structure of the Li-10 nucleus investigated via the Li-9(d,p)Li-10 reaction

SANTI P., KOLATA J. J. , GUIMARAES V., PETERSON D., WHITE-STEVENSON R., RISCETTE E., BAZIN D., SHERRILL B. M. , NAVIN A., DEYOUNG P. A. , et al.

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Cross section measurements of the Pd-102(p, gamma)Ag-103 Sn-116(p, gamma)Sb-117, and Sn-112(alpha, gamma)Te-116 reactions relevant to the astrophysical rp- and gamma-processes

Özkan N., Murphy A., Boyd R., Cole A., FAMIANO M., GÜRAY R. T. , HOWARD M., Sahin L., Zach J., DEHAAN R., et al.

NUCLEAR PHYSICS A, vol.710, pp.469-485, 2002 (Journal Indexed in SCI)

Measurement of the cross section of the Li-8(d,alpha)He-6 reaction of possible relevance to big bang nucleosynthesis

Sahin L., BOYD R. N. , COLE A. L. , Famino M., Guray R. T. , Murphy A., Ozkan N., KOLATA J. J. , GUIMARÃES V., HENCHECK M.

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Proton radiative capture cross sections on Pd-102 at energies of astrophysical interest

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Measurements of proton radiative capture cross sections relevant to the astrophysical rp- and gamma-processes

Chloupek F., Murphy A., Boyd R., Cole A., GÖRRES J., Guray R. T. , RAÍMANN G., Zach J., RAUSCHER T., Schwarzenberg J., et al.

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Articles Published in Other Journals

Caesium-137 Levels in Surface Soils Over The Black Sea Coast of Turkey

YESİN T., GÜRAY R. T.

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Books & Book Chapters

in: Principles and Practice of Physics

GÜRAY R. T.

Bölüm:9 WORK, Abdullah Verçin, Ali Ulvi Yilmazer, Editor, PEARSON – NOBEL, 2016

in: Nükleer ve Parçacık Fiziği

GÜRAY R. T.

Çekirdek Modelleri, Prof. Dr. İsa Dumanoglu, Prof. Dr. Sefa Ertürk, Editor, Nobel, 2014

Refereed Congress / Symposium Publications in Proceedings

- **Measurements of charged particle induced reaction cross sections on proton-rich nuclei**
GÜRAY R. T.
INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, 2 - 06 September 2018
- **Investigation of cross of ^{96}Zr , ^{112}Sn , and $^{119}\text{Sn}(p,g)$ reactions**
GÜLTEKİN T., GÜRAY R. T., ÖZKAN GÜRAY N.
Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018
- **Investigating the relationship between soil Radon gas and seismic activity in Yalova**
EROL Ş., ÖZKAN GÜRAY N., GÜRAY R. T.
Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018
- **Reaction cross section calculations via 2nd beta decay using the activation method for the p-process**
EZGİ T., ÖZKAN GÜRAY N., GÜRAY R. T.
Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018
- **Investigation of cross sections for the interaction of high energy proton beam with heavy nuclei in Accelerator Driven Systems**
AVCI D., GÜRAY R. T., ÖZKAN GÜRAY N.
Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018
- **Experimental cross section investigation of Sn isotopes for the astrophysical p-process in COST/CHETEC**
ÖZKAN GÜRAY N., YALÇIN C., GÜRAY R. T.
Turkish Physical Society 33TH International Physics Congress, 6 - 10 September 2017
- **Half-life measurement for element synthesis in nuclear astrophysics**
YALÇIN C., ÖKSÜZ İ., GÜRAY R. T., ÖZKAN GÜRAY N.
Turkish Physical Society 33TH International Physics Congress, 6 - 10 September 2017
- **Measurement of charged particle induced reaction on proton-rich nuclei"**
GÜRAY R. T., YALÇIN C., EROĞLU M., ÖZKAN GÜRAY N.
Turkish Physical Society 33TH International Physics Congress, 6 - 10 Eylül 2017
- **MEASUREMENT OF NATURAL AND ^{137}Cs RADIOACTIVITY AT İZMİT BAY IN KOCAELİ TURKEY**
ÖKSÜZ İ., GÜRAY R. T., ÖZKAN GÜRAY N., YALÇIN C., ERGÜL H. A., AKSAN S.
9th International Physics Conference of the Balkan Physical Union, 4 - 06 August 2015
- **Alpha captured reaction cross section measurements on Sb isotopes by using activation method with g ray and X ray countings**
KORKULU Z., KISS G., SZÜCS T., FULOP Z., GÜRAY R. T., GYURKY G., HALASZ Z., SOMORJAI E., YALÇIN C.
Nuclear Physics in Astrophysics Conference (NPA6), 19 - 24 May 2013
- **Investigation of Alpha Induced Reaction on ^{107}Ag at Astrophysical Energies**
YALÇIN C., ÖZKAN GÜRAY N., GÜRAY R. T., GYURKY G., KISS G., FARKAS J., SZÜCS T., HALASZ Z., FULOP Z., SOMORJAI E.
Nuclear Physics in Astrophysics (NPA6) Conference, 19 - 24 May 2013
- **Investigation of Alpha Induced Reactions on ^{107}Ag at Astrophysical Energies**
YALÇIN C., ÖZKAN GÜRAY N., GÜRAY R. T., Gyürky G., Kiss G. G., Szücs T., Halasz Z., Fülöp Z., Farkas J., Somorjai E., et al.
Nuclear Physics in Astrophysics VI, 19 - 24 Mayıs 2013, vol.665, pp.12043
- **Alpha capture reaction cross section measurements on Sb isotopes by activation method**
KORKULU Z., ÖZKAN N., Kiss G. G., Szuecs T., Fuloep Z., GÜRAY R. T., Gyuerky G., HALÁSZ Z., SOMORJAI E., Toeroek Z., et al.
6th Nuclear Physics in Astrophysics Conference (NPA), Lisbon, Portugal, 19 - 24 May 2013, vol.665
- **Measurement Of Natural And ^{137}Cs Radioactivity Concentrations At Izmit Bay (Marmara Sea), Turkey**
Öksüz İ., GÜRAY R. T., Ozkan N., YALÇIN C., ERGÜL H. A., AKSAN S.
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015,

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DETERMINATION OF RADON CONCENTRATION AT YAHYA KAPTAN DISTRICT IN KOCAELI
KARATAY K., ÖZKAN GÜRAY N., GÜRAY R. T. , YALÇIN C.

9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015

Alpha Scattering Experiment On ^{64}Zn And The Low Energy Alpha Nucleus Optical Potential

ORNELAS A., GALAVÍZ D., GYURKY G., KÍSS G., FULOP Z., SOMORJAI E., SZÜCS T., TAKACS M., MOHR P., GÜRAY R. T. ,
et al.

Proceedings of Science, 7 - 11 July 2014

^{164}Er p g ^{165}Tm Cross Section Measurements Related to the Astrophysical p process

ÖZKAN GÜRAY N., GÜRAY R. T. , DURUKAYA B., YILDIZ A., TAN W., ABRAHAMIAN A., BATTAGLIA A., BUCHER B.,
DEBOER A., CALDERON S., et al.

29th International Physics Congress of the Turkish Physical Society, 5 - 08 September 2013, vol.21

Elastic scattering and the Family Problem on ^{64}Zn ^{106}Cd and 113 ^{115}In

ORNELAS A., GALAVÍZ D., GYURKY G., FULOP Z., KÍSS G., HALASZ Z., SZÜCS T., SOMORJAI E., MP T., MORH P., et al.
Nuclear Physics in Astrophysics Conference, 19 - 24 May 2013

Elastic alpha scattering experiment on ^{64}Zn

KORKULU Z., KÍSS G., SZÜCS T., FULOP Z., GÜRAY R. T. , GYURKY G., HALASZ Z., SOMORJAI E., YALÇIN C.

Open problems and future directions in heavy element nucleosynthesis, 10 - 12 April 2013

**$^{121}\text{Sb}(a,g)^{125}\text{I}$ $^{121}\text{Sb}(a,n)^{124}\text{I}$ and $^{123}\text{Sb}(a,n)^{126}\text{I}$ cross section measurements at the
astrophysical energies**

KORKULU Z., KÍSS G., SZÜCS T., FULOP Z., GÜRAY R. T. , GYURKY G., HALASZ Z., SOMORJAI E., YALÇIN C.

Open problems and future directions in heavy element nucleosynthesis, 10 - 12 April 2013

Elastic a scattering and the Family Problem on ^{64}Zn and ^{106}Cd

ORNELAS A., GALAVÍZ D., GYURKY G., FULOP Z., KÍSS G., HALASZ Z., SZÜCS T., SOMORJAI E., MP T., MORH P., et al.

Open problems and future directions in heavy element nucleosynthesis, 10 - 12 April 2013

**Cross Section Measurements of $^{107}\text{Ag}(a,g)^{111}\text{In}$ and $^{107}\text{Ag}(a,n)^{110}\text{In}$ Reactions Close to the
Astrophysical Energy Range**

YALÇIN C., ÖZKAN GÜRAY N., GÜRAY R. T. , GYURKY G., KÍSS G., FARKAS J., SZÜCS T., HALASZ Z., FULOP Z.,
SOMORJAI E.

2nd European Nuclear Physics Conference, 17 - 21 September 2012

Investigating the variation of elastic alpha scattering cross sections in the A 100 region

KÍSS G., MORH P., FULOP Z., GYURKY G., ELEKES Z., FARKAS J., SOMORJAI E., GALAVÍZ D., GÜRAY R. T. , ÖZKAN
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GÜRAY R. T.

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Kocaeli**

KORKULU Z., ÖZKAN GÜRAY N., GÜRAY R. T. , YALÇIN C., DİKME E., ERGÜL H. A.

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DİKME E., GÜRAY R. T. , ÖZKAN GÜRAY N., YALÇIN C., KORKULU Z.

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The level structure of ^{18}Ne

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 Gyuerky G. Y. , Elekes Z., Farkas J., Fueloep Z. S. , Kiss G. G. , Somorjai E., Szuecs T., GÜRAY R. T. , Ozkan N., YALÇIN C., et al.
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 KISS G., GALAVÍZ D., GYURKY G., ELEKES Z., FULOP Z., SOMORJAI E., ZÍGLES A., MORH P., GÖRRES J., WIESCHER M., et al.
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- **A Recent Study on ^{137}Cs Activities in Surface Soils Over the Eastern Part of the Black Sea Coast of Turkey**
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- **Calculation of Effective Beam Energy Depending on the Target Thickness in Applications of Nuclear Astrophysics**
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- **Nuclear Astrophysical Applications of Tandem Van De Graaff Accelerators**
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- **Radyoaktif İyon Demeti ve Nükleer Astrofizik**
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