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Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: A-5142-2019

Yoksis Araştırmacı ID: 153842

Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, Türkiye 2013 - 2020

Doktora, Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud, Istituto Nazionale Di Fisica Nucleare ,

Dipartimento Di Fisica , İtalya 2018 - 2018

Doktora, Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud, Istituto Nazionale Di Fisica Nucleare ,

Dipartimento Di Fisica, İtalya 2017 - 2018

Doktora, Istituto Nazionale Di Fisica Nucleare Laboratori Nazionali Del Sud, Istituto Nazionale Di Fisica Nucleare ,

Dipartimento Di Fisica , İtalya 2016 - 2016

Doktora, Technische Universitaet Darmstadt, Faculty Of Arts&Sciences, Department Of Physics , Almanya 2015 - 2015

Yüksek Lisans, Recep Tayyip Erdoğan Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, Türkiye 2010 - 2013

Lisans, Süleyman Demirel Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2005 - 2009

Yabancı Diller

İtalyanca, A2 Temel

İngilizce, C1 İleri

Yaptığı Tezler

Yüksek Lisans, Gauss potansiyeli için Schrödinger denkleminin asimptotik iterasyon metodu kullanarak çözümü, Recep

Tayyip Erdoğan Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilimdalı, 2013

Araştırma Alanları

Fizik,Yüksek Enerji Fiziği, Fizik, Astronomi ve Astrofizik, Nükleer Fizik, Temel Parçacıklar ve Alanlar, Temel Bilimler

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Recep Tayyip Erdoğan Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2009 - Devam Ediyor

Verdiği Dersler

Genel Fizik Laboratuvarı II, Lisans, 2021 - 2022

Modern Fizik Laboratuvarı, Lisans, 2021 - 2022

Genel Fizik Laboratuvarı I, Lisans, 2021 - 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Multichannel experimental and theoretical approach to the C 12 (O 18, F 18) B 12 single-charge-exchange reaction at 275 MeV: Initial-state interaction and single-particle properties of nuclear wave functions**
Spatafora A., Carbone D., Cappuzzello F., Cavallaro M., Acosta L., Agodi C., Amador-Valenzuela P., Borello-Lewin T., Brischetto G., Calabrese S., et al.
Physical Review C, cilt.107, sa.2, 2023 (SCI-Expanded)
- II. **Analysis of the one-neutron transfer reaction in O-18 + Se-76 collisions at 275 MeV**
Cirraldo I., Cappuzzello F., Cavallaro M., Carbone D., Burrello S., Spatafora A., Gargano A., De Gregorio G., Vsevolodovna R. I. M., Acosta L., et al.
PHYSICAL REVIEW C, cilt.105, sa.4, 2022 (SCI-Expanded)
- III. **Multichannel experimental and theoretical constraints for the Cd-116(Ne-20, F-20)In-116 charge exchange reaction at 306 MeV**
Burrello S., Calabrese S., Cappuzzello F., Carbone D., Cavallaro M., Colonna M., Lay J. A., Lenske H., Agodi C., Ferreira J. L., et al.
PHYSICAL REVIEW C, cilt.105, sa.2, 2022 (SCI-Expanded)
- IV. **O 18 -induced single-nucleon transfer reactions on Ca 40 at 15.3 A MeV within a multichannel analysis**
Calabrese S., Cavallaro M., Carbone D., Cappuzzello F., Agodi C., Burrello S., De Gregorio G., Ferreira J. L., Gargano A., Sgouros O., et al.
PHYSICAL REVIEW C, cilt.104, sa.6, ss.1-15, 2021 (SCI-Expanded)
- V. **O-18 + Se-76 elastic and inelastic scattering at 275 MeV**
La Fauci L., Spatafora A., Cappuzzello F., Agodi C., Carbone D., Cavallaro M., Lubian J., Acosta L., Amador-Valenzuela P., Borello-Lewin T., et al.
PHYSICAL REVIEW C, cilt.104, sa.5, 2021 (SCI-Expanded)
- VI. **One-proton transfer reaction for the O-18 + Ti-48 system at 275 MeV**
Sgouros O., Cavallaro M., Cappuzzello F., Carbone D., Agodi C., Gargano A., De Gregorio G., Altana C., Brischetto G. A., Burrello S., et al.
PHYSICAL REVIEW C, cilt.104, sa.3, 2021 (SCI-Expanded)
- VII. **Measurement of the double charge exchange reaction for the Ne-20**
Soukeras V., Cappuzzello F., Carbone D., Cavallaro M., Agodi C., Acosta L., BOZTOSUN İ., Brischetto G. A., Calabrese S., Calvo D., et al.
RESULTS IN PHYSICS, cilt.28, 2021 (SCI-Expanded)
- VIII. **Initial State Interaction for the Ne-20**
Carbone D., Linares R., Amador-Valenzuela P., Calabrese S., Cappuzzello F., Cavallaro M., Firat S., Fisichella M., Spatafora A., Acosta L., et al.
UNIVERSE, cilt.7, sa.3, 2021 (SCI-Expanded)
- IX. **An upgraded focal plane detector for the MAGNEX spectrometer**
Torresi D., Sgouros O., Soukeras V., Cavallaro M., Cappuzzello F., Carbone D., Agodi C., Brischetto G., Calabrese S., Cirraldo I., et al.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, cilt.989, 2021 (SCI-Expanded)
- X. **Analysis of the background on cross section measurements with the MAGNEX spectrometer: The (20Ne, 200) Double Charge Exchange case**
Calabrese S., Cappuzzello F., Carbone D., Cavallaro M., Agodi C., Torresi D., Acosta L., Bonanno D., Bongiovanni D.,

Borello-Lewin T., et al.

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, cilt.980, 2020 (SCI-Expanded)

- XI. **Analysis of two-nucleon transfer reactions in the Ne-20+Cd-116 system at 306 MeV**
Carbone D., Ferreira J. L., Calabrese S., Cappuzzello F., Cavallaro M., Hacisalihoglu A., Lenske H., Lubian J., Vsevolodovna R. I. M., Santopinto E., et al.
PHYSICAL REVIEW C, cilt.102, sa.4, 2020 (SCI-Expanded)
- XII. **First comparison of GEANT4 hadrontherapy physics model with experimental data for a NUMEN project reaction case**
Oliveira J. R. B., Morales M., Flechas D., Carbone D., Cavallaro M., Torresi D., Acosta L., Agodi C., Amador-Valenzuela P., Bonanno D., et al.
EUROPEAN PHYSICAL JOURNAL A, cilt.56, sa.5, 2020 (SCI-Expanded)
- XIII. **Be-9 + p breakup at 5.67A MeV in a full kinematics approach**
Pakou A., Sgouros O., Soukeras V., Cappuzzello F., Acosta L., Agodi C., Boiano A., Calabrese S., Carbone D., Cavallaro M., et al.
PHYSICAL REVIEW C, cilt.101, sa.2, 2020 (SCI-Expanded)
- XIV. **Ne-20 +Ge- 76 elastic and inelastic scattering at 306 MeV**
Spatafora A., Cappuzzello F., Carbone D., Cavallaro M., Lay J. A., Acosta L., Agodi C., Bonanno D., Bongiovanni D., BOZTOSUN İ., et al.
PHYSICAL REVIEW C, cilt.100, sa.3, 2019 (SCI-Expanded)
- XV. **Charge-state distributions of Ne-20 ions emerging from thin foils**
CAVALLARO M., SANTAGATI G., CAPPUZZELLO F., CARBONE D., LINARES R., TORRESI D., ACOSTA L., AGODI C., BONANNO D., BONGIOVANNI D., et al.
RESULTS IN PHYSICS, cilt.13, 2019 (SCI-Expanded)
- XVI. **The NUMEN project: NUClear Matrix Elements for Neutrinoless double beta decay**
CAPPUZZELLO F., AGODI C., CAVALLARO M., CARBONE D., TUDIŠCO S., Lo Presti D., Oliveira J. R. B., FİNOCCHİARO P., COLONNA M., RİFUGGİATO D., et al.
EUROPEAN PHYSICAL JOURNAL A, cilt.54, sa.5, 2018 (SCI-Expanded)
- XVII. **FIRST MEASUREMENT OF THE Cd-116(Ne-20, O-20)Sn-116 REACTION AT 15 A MeV**
CALABRESE S., CAPPUZZELLO F., CARBONE D., CAVALLARO M., AGODI C., ACOSTA L., BONANNO D., BONGIOVANNI D., Borello-Lewin T., BOZTOSUN İ., et al.
ACTA PHYSICA POLONICA B, cilt.49, sa.3, ss.275-280, 2018 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **A focus on selected perspectives of the NUMEN project**
Cavallaro M., Agodi C., Bellone J., Brasolin S., Brischetto G., Bussa M., Calabrese S., Calvo D., Campajola L., Capirossi V., et al.
JOURNAL OF PHYSICS: CONFERENCE SERIES, cilt.2340, sa.1, ss.12036-12045, 2022 (Scopus)
- II. **A Constrained Analysis of the Ca-40(O-18,F-18)K-40 Direct Charge Exchange Reaction Mechanism at 275 MeV**
Cavallaro M., Bellone J. I., Calabrese S., Agodi C., Burrello S., Cappuzzello F., Carbone D., Colonna M., Deshmukh N., Lenske H., et al.
FRONTIERS IN ASTRONOMY AND SPACE SCIENCES, cilt.8, 2021 (ESCI)
- III. **The NUMEN Project @ LNS: Status and perspectives**
Cappuzzello F., Agodi C., Acosta L., Amador-Valenzuela P., Auerbach N., Barea J., Bellone J. I., Belmont D., Bijker R., Bonanno D., et al.
NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS, cilt.42, 2019 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Study of the one-neutron transfer reaction in $180 + ^{76}\text{Se}$ collision at 275 MeV in the context of the NUMEN project**
Ciraldo I, Cappuzzello F, Cavallaro M, Carbone D., Burrello S, Spatafora A., Gargano A., De Gregorio G, Magaña Vsevolodovna R., Acosta L., et al.
13th International Spring Seminar on Nuclear Physics: Perspectives and Challenges in Nuclear Structure after 70 Years of Shell Model, ISS 2022, Sant'Angelo, İtalya, 15 - 20 Mayıs 2022, cilt.2453
- II. **Multi-channel experimental and theoretical approach to study the $^{12}\text{C}(^{180},^{18}\text{F})^{12}\text{B}$ single charge exchange reaction**
Spatafora A., Carbone D., Cappuzzello F., Cavallaro M., Acosta L., Agodi C., Amador-Valenzuela P., Borello-Lewin T., Brischetto G., Calabrese S., et al.
13th International Spring Seminar on Nuclear Physics: Perspectives and Challenges in Nuclear Structure after 70 Years of Shell Model, ISS 2022, Sant'Angelo, İtalya, 15 - 20 Mayıs 2022, cilt.2453
- III. **Recent results on heavy-ion direct reactions of interest for $0\nu\beta\beta$ decay at INFN - LNS**
Cavallaro M., Acosta L., Adsley P., Agodi C., Altana C., Amador-Valenzuela P., Auerbach N., Barea J., Bellone J., Bijker R., et al.
43rd Symposium on Nuclear Physics (SNP), Morelos, Meksika, 6 - 09 Ocak 2020, cilt.1610
- IV. **New Experimental Campaign of NUMEN Project**
Agodi C., Cappuzzello F., Acosta L., Amador-Valenzuela P., Auerbach N., Barea J., Bellone J., Belmont D., Bijker R., Bonanno D., et al.
Meeting on Symmetries and Order - Algebraic Methods in Many-Body Systems, Connecticut, Amerika Birleşik Devletleri, 5 - 06 Ekim 2018, cilt.2150
- V. **The NUMEN Project @ LNS: Status and Perspectives**
Cappuzzello F., Agodi C., Acosta L., Altana C., Amador-Valenzuela P., Auerbach N., Barea J., Bellone J., Bijker R., Bonanno D., et al.
12th Workshop on Calculation of Double-Beta-Decay Matrix Elements (MEDEX), Prague, Çek Cumhuriyeti, 27 - 31 Mayıs 2019, cilt.2165
- VI. **Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS**
Cavallaro M., Acosta L., Agodi C., Altana C., Amador-Valenzuela P., Auerbach N., Barea J., Bellone J. I., Bijker R., Bonanno D., et al.
4th International Conference on Nuclear Structure and Dynamics (NSD), Venice, İtalya, 13 - 17 Mayıs 2019, cilt.223
- VII. **The NUMEN Project @ LNS: Status and Perspectives**
Cappuzzello F., Agodi C., Acosta L., Amador-Valenzuela P., Auerbach N., Barea J., Bellone J., Belmont D., Bijker R., Bonanno D., et al.
Meeting on Symmetries and Order - Algebraic Methods in Many-Body Systems, Connecticut, Amerika Birleşik Devletleri, 5 - 06 Ekim 2018, cilt.2150
- VIII. **Experimental issues for the measurement of the double charge exchange reactions within the NUMEN project**
CARBONE D., CAPPUZZELLO F., AGODI C., CAVALLARO M., ACOSTA L., BONANNO D., BONGIOVANNI D., Boztosun I., CALABRESE S., CALVO D., et al.
Conference on Neutrino and Nuclear Physics 2017, CNNP 2017, Catania, İtalya, 15 - 21 Ekim 2017, cilt.1056
- IX. **Data reduction for experimental measurements within the NUMEN project**
Calabrese S., Cappuzzello F., Agodi C., Cavallaro M., Carbone D., Acosta L., Bonanno D., Bongiovanni D., Boztosun I., Calvo D., et al.
Conference on Neutrino and Nuclear Physics 2017, CNNP 2017, Catania, İtalya, 15 - 21 Ekim 2017, cilt.1056
- X. **Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay**
Cavallaro M., Cappuzzello F., Agodi C., Acosta L., Auerbach N., Bellone J., Bijker R., Bonanno D., Bongiovanni D., Borello-Lewin T., et al.
12th International Spring Seminar on Nuclear Physics - Current Problems and Prospects for Nuclear Structure,

İtalya, 15 - 19 Mayıs 2017, cilt.966

- XI. **Experimental challenges for the measurement of the Cd-116(Ne-20,O-20)Sn-116 double charge exchange reaction at 15 AMeV**
CARBONE D., CAPPUZZELLO F., AGODÌ C., CAVALLARO M., ACOSTA L., BONANNO D., BONGIOVANNI D., Borello T., BOZTOSUN İ., CALABRESE S., et al.
22nd International School on Nuclear Physics, Neutron Physics and Applications, Varna, Bulgaristan, 10 - 16 Eylül 2017, cilt.1023
- XII. **Experimental challenges in the measurement of double charge exchange reactions within the NUMEN project**
Carbone D., Cappuzzello F., Agodi C., Cavallaro M., Acosta L., Bonanno D., Bongiovanni D., BOZTOSUN İ., Calabrese S., Calvo D., et al.
41st Symposium on Nuclear Physics (Cocoyoc), Cocoyoc, Meksika, 8 - 11 Ocak 2018, cilt.1078
- XIII. **The nuclear matrix elements of 0v beta beta decay and the NUMEN project at INFN-LNS**
Cappuzzello F., Agodi C., Aciksoz E., Acosta L., Aslanoglou X., Auerbach N., Bijker R., Bonanno D., Bongiovanni D., Borello T., et al.
39th Symposium on Nuclear Physics (Cocoyoc), Cocoyoc, Meksika, 5 - 08 Ocak 2016, cilt.730
- XIV. **The solution of the Schrödinger equation for the Gauss potential by using the asymptotic iteration method**
HACISALİHOĞLU A., KÜÇÜK Y.
101st National Congress of the Italian Physical Society, Roma, İtalya, 21 - 25 Eylül 2015

Metrikler

Yayın: 34

Atf (WoS): 233

Atf (Scopus): 337

H-İndeks (WoS): 8

H-İndeks (Scopus): 9