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Kişisel Bilgiler

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Yoksis Araştırmacı ID: 27009

Eğitim Bilgileri

Doktora, Vanderbilt University, Department Of Physics, Amerika Birleşik Devletleri 1989 - 1995

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Monte-Carlo Calculations of Lepton Pair Production in Relativistic Heavy-Ion Collisions, 1995

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 1996 - Devam Ediyor

Akademik İdari Deneyim

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 1998 - 2000

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Enhancements of electron-positron pair production at very low transverse momentum in peripheral hadronic $A + A$ collisions**
Güçlü M. C., Yılmaz Şengül M.
PHYSICS LETTERS, SECTION B: NUCLEAR, ELEMENTARY PARTICLE AND HIGH-ENERGY PHYSICS, cilt.846, ss.1-5, 2023 (SCI-Expanded)
- Multiple-scattering production of lepton pairs in ultraperipheral heavy-ion collisions**
Karadağ S., Güçlü M. C.
PHYSICAL REVIEW C, cilt.102, sa.1, 2020 (SCI-Expanded)
- Simultaneous production of lepton pairs in ultraperipheral relativistic heavy ion collisions**
Kurban E., Guclu M. C.
Physical Review C, cilt.96, sa.4, 2017 (SCI-Expanded)

- IV. **Electromagnetic heavy-lepton pair production in relativistic heavy-ion collisions**
Sengul M. Y., Guclu M. C., Mercan O., Karakus N. G.
European Physical Journal C, cilt.76, sa.8, 2016 (SCI-Expanded)
- V. **Relativistic antihydrogen production by pair production with positron capture**
Sengul M. Y., Guclu M. C.
Progress in Particle and Nuclear Physics, cilt.67, sa.2, ss.612-615, 2012 (SCI-Expanded)
- VI. **Bound free electron-positron pair production accompanied by giant dipole resonances**
Sengul M. Y., Guclu M. C.
Physical Review C - Nuclear Physics, cilt.83, sa.1, 2011 (SCI-Expanded)
- VII. **Bound-free electron-positron pair production in relativistic heavy-ion collisions**
Sengul M. Y., Guclu M. C., Fritzsche S.
Physical Review A - Atomic, Molecular, and Optical Physics, cilt.80, sa.4, 2009 (SCI-Expanded)
- VIII. **Electromagnetic interactions at RHIC and LHC**
Guclu M. C.
PROGRESS IN PARTICLE AND NUCLEAR PHYSICS, VOL 62, NO 2, cilt.62, sa.2, ss.498-502, 2009 (SCI-Expanded)
- IX. **Production of electron-positron pairs by nuclear dissociation in peripheral heavy ion collisions**
Guclu M. C., Sengul M. Y.
PROGRESS IN PARTICLE AND NUCLEAR PHYSICS VOL 59, NO 1, cilt.59, sa.1, ss.383-385, 2007 (SCI-Expanded)
- X. **Coulomb corrections in the lepton-pair production in ultrarelativistic nuclear collisions**
Guclu M. C., Kovankaya G., Yilmaz M.
PHYSICAL REVIEW A, cilt.72, sa.2, 2005 (SCI-Expanded)
- XI. **Ultra-peripheral collisions of fully stripped gold ions at RHIC energies**
Guclu M. C.
Journal of Physics G: Nuclear and Particle Physics, cilt.31, sa.4, 2005 (SCI-Expanded)
- XII. **Reply to 'Comment on "Higher order effects in lepton-pair production in relativistic heavy ion collisions" '**
Guclu M. C.
PHYSICAL REVIEW C, cilt.63, sa.4, 2001 (SCI-Expanded)
- XIII. **Monte Carlo simulation of e-e+ pair production in Coulomb collisions**
Güçlü M. C.
Nuclear Physics A, cilt.681, sa.1-4, ss.112-115, 2001 (SCI-Expanded)
- XIV. **Monte Carlo simulation of e(-)e(+) pair production in Coulomb collisions**
Guclu M. C.
NUCLEAR PHYSICS A, cilt.681, 2001 (SCI-Expanded)
- XV. **Variation of Cosmic Ray Intensity During the Solar Eclipse August 11 1999**
KANDEMİR G., GÜÇLÜ M. C., GEÇKİNLİ M., FIRAT C., BOYDAĞ Ş., ÖZGÜÇ A., ATAÇ T.
ASP Conference Series, cilt.205, ss.202-207, 2000 (SCI-Expanded)
- XVI. **Semi-analytic calculations for the impact parameter dependence of electromagnetic multi-lepton pair production**
Guclu M. C.
Nuclear Physics A, cilt.668, sa.1-4, ss.149-159, 2000 (SCI-Expanded)
- XVII. **Higher order effects in lepton-pair production in relativistic heavy ion collisions**
Güçlü M. C.
Physical Review C - Nuclear Physics, cilt.61, sa.5, ss.549031-549034, 2000 (SCI-Expanded)
- XVIII. **Multi-pair production cross sections at ultra-relativistic energies**
Guclu M. C.
Nuclear Physics A, cilt.661, sa.1-4, ss.530-533, 1999 (SCI-Expanded)
- XIX. **Electromagnetic Lepton-Pair Production in Relativistic Heavy-Ion Collisions**
Guclu M. C., Li J., Umar A., Ernst D., Strayer M.
Annals of Physics, cilt.272, sa.1, ss.7-48, 1999 (SCI-Expanded)
- XX. **IMPACT-PARAMETER DEPENDENCE OF MULTIPLE LEPTON-PAIR PRODUCTION FROM**

ELECTROMAGNETIC-FIELDS

Güçlü M. C., WELLS J., UMAR A., STRAYER M., ERNST D.

PHYSICAL REVIEW A, cilt.51, sa.3, ss.1836-1844, 1995 (SCI-Expanded)

XXI. NUCLEAR HARTREE-FOCK CALCULATIONS WITH SPLINES

UMAR A., STRAYER M., WU J., DEAN D., Güçlü M. C.

PHYSICAL REVIEW C, cilt.44, sa.6, ss.2512-2521, 1991 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. Two photon physics in very peripheral collisions of relativistic heavy ions

Güçlü M. C.

ARI Bulletin of the Istanbul Technical University, cilt.54, sa.3, ss.44-47, 2005 (Scopus)

Kitap & Kitap Bölümleri

I. Structure and Dynamics of Elementary Matter

Greiner W. (Editör), Itkis M. G. (Editör), Reinhardt J. (Editör), Güçlü M. C. (Editör)

Kluwer Academic Publishers, Dordrecht, 2004

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Electromagnetic interactions of heavy ions at small impact parameters and lepton pair productions

Güçlü M. C., Sengul M. Y.

27th Winter Workshop on Nuclear Dynamics (WWND), Colorado, Amerika Birleşik Devletleri, 6 - 13 Şubat 2011, cilt.316

II. Lepton pair production accompanied by giant dipole resonance

Gueclue M. C.

International Workshop on High-Energy Photon Collision at the LHC, Geneva, İsviçre, 22 - 28 Nisan 2008, cilt.179-80, ss.134-141

III. Electron positron pair production at RHIC and LHC

Guclu M. C.

Conference on Nuclear Physic and Astrophysics - From Stable Beams to Exotic Nucle, Cappadocia, Türkiye, 25 - 30 Haziran 2008, cilt.1072, ss.15-20

IV. Atomic collisions and free lepton pair production

Güçlü M. C., Yılmaz M.

LOW ENERGY ANTIPROTON PHYSICS: 8th International Conference on Low Energy Antiproton Physics, LEAP'05, Bonn, Almanya, 16 - 22 Mayıs 2005, cilt.796, ss.334-337

V. Atomic collisions and free lepton pair production

Guclu M. C., Yılmaz M.

8th International Conference on Low Energy Antiproton Physics (LEAP 2005), Bonn, Almanya, 16 - 22 Mayıs 2005, cilt.796, ss.334-337

Desteklenen Projeler

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, Lepton Pair Production at Ultra Relativistic Heavy Ion Collisions, 2012 - 2018

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, BOUND FREE ELECTRON PSİTRON PAİR PRODUCTION, 2011 - 2018

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, Lepton Pair Production Accompanied by Giant Dipole Resonance,

2008 - 2018

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, Lepton Çift Üretiminde Columb Düzeltmesi, 2005 - 2018

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, Relativistik Ağır İyon Çarpışmalarında elektron Yakalanması, 2004 - 2018

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, Ağır İyon Çarpışmalarında Parçacık Üretimi, 2006 - 2008

Güçlü M. C., Yükseköğretim Kurumları Destekli Proje, Relativistik Ağır İyon Çarpışmasında Lepton Çift Oluşumu, 1998 - 2005

Metrikler

Yayın: 29

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