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Personal Information

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri, Fizik, Turkey 1982 - 1989

Post Graduate, Karadeniz Technical University, Fen Bilimleri, Fizik, Turkey 1980 - 1982

Under Graduate, Karadeniz Technical University, Temel Bilimler Fakültesi, Fizik Mühendisliği, Turkey 1976 - 1980

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, AYAR ALAN KURAMLARINDA LEPTONLARIN YAPI ÇARPANLARI, Karadeniz Technical University, Fen Bilimleri, Fizik, 1989

Research Areas

Physics, Basic Particles and Areas, Special theories and interaction models, particle systematics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2018 - Continues

Professional Experience

Head of Department, Karadeniz Technical University, Fizik, 2018 - Continues

Courses

Fizik II, Under Graduate, 2017 - 2018

Fizikte Mat. Yönt.II, Under Graduate, 2017 - 2018

Fizikte Mat. Yönt., Under Graduate, 2017 - 2018

Fizik_II, Under Graduate, 2017 - 2018

Teorik Mekanik, Under Graduate, 2017 - 2018

Fizik I, Under Graduate, 2017 - 2018

Advising Theses

AYDIN C., Elektron-pozitron Çarpışmasından Hadron Üretilmesi, Post Graduate, S.Sarı(Student), 2013

AYDIN C., Merkezci Olmayan Manning-Rosen Potansiyeli için Schrödinger ve Klein- Fock -Gordon Denklemlerinin Analitik Çözümleri, Post Graduate, O.Uzun(Student), 2012

AYDIN C., Proton-proton ve Foton-foton İnküsiiv saçılma Süreçlerinde Kızılötesi Renormalonlar ve Yüksek Twist Katkıları, Doctorate, F.Keskin(Student), 2012

AYDIN C., Üç-nokta KRD Toplama Kurallarının Hadron Fizikine Uygulaması, Doctorate, M.Bayar(Student), 2007

AYDIN C., e+e-nu antinu gama Sürecinin Tesir kesiti ve Taunötrinosunun Magnetik Momenti, Post Graduate, N.Kılıç(Student), 2006

AYDIN C., e+e_nu antinu gamma Sürecinde Yüksüz Bozonların Nötrino Magnetik Momentine Katkısı, Doctorate, A.Aydemir(Student), 2002

AYDIN C., Genişletilmiş Elektrozayıf Kuramda Z-nu antinu gama Sürecinin Bozunma Olasılığı, Post Graduate, M.Bayar(Student), 2002

AYDIN C., e+e-W+W Sürecinin Diferansiyel tesir kesiti, Post Graduate, F.Keskin(Student), 1999

AYDIN C., Nötrinolar ve Özellikleri, Post Graduate, A.Küçükarslan(Student), 1996

Jury Memberships

Doctorate, Tez Savunma Jürisi, KTÜ, July, 2018

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

- **Incidence of and Risk Factors for Incisional Hernia after Liver Surgery Performed with a J-Shaped Right Subcostal Incision**
Arslan M. K. , AYDIN C., TOPALOĞLU S., ÇALIK A., Tomas K., Karabulut E.
AMERICAN SURGEON, vol.83, 2017 (Journal Indexed in SCI)
- **Higher-twist mechanism and inclusive gluon production in pion-proton collisions**
AHMADOV A. I. , AYDIN C., MYRZAKULOV R., UZUN Ö.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.30, 2015 (Journal Indexed in SCI)
- **Higher-Twist Mechanism and Inclusive Gluon Production in Pion-Proton Collisions**
Ahmadov A. I. , AYDIN Ç., Myrzakulov R., UZUN O.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, no.36, 2015 (Journal Indexed in SCI)
- **Fibrin Glue and Biliary Anastomotic Leak After Liver Transplant**
TOPALOĞLU S., ÇALIK A., Kalaycı O., Sağlam K., Yazıcı A., AYDIN C.
EXPERIMENTAL AND CLINICAL TRANSPLANTATION, vol.12, pp.76-80, 2014 (Journal Indexed in SCI)
- **Inclusive gluon production in pion-proton collisions and the principle of maximum conformality renormalization scale**
Ahmadov A. I. , AYDIN C., UZUN Ö.
PHYSICAL REVIEW D, vol.89, 2014 (Journal Indexed in SCI)
- **ANALYTICAL SOLUTIONS OF THE KLEIN-FOCK-GORDON EQUATION WITH THE MANNING-ROSEN POTENTIAL PLUS A RING-SHAPED LIKE POTENTIAL**
Ahmadov A. I. , Aydin C., UZUN Ö.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.29, 2014 (Journal Indexed in SCI)
- **ANALYTICAL SOLUTIONS OF THE SCHRODINGER EQUATION WITH THE MANNING-ROSEN POTENTIAL PLUS A RING-SHAPED-LIKE POTENTIAL**
Ahmadov H. I. , AYDIN C., Huseynova N. S. , UZUN Ö.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.22, 2013 (Journal Indexed in SCI)
- **Higher-twist effects in the direct photon production and the role of infrared renormalons**
Ahmadov A. I. , AYDIN C., UZUN Ö.
PHYSICAL REVIEW D, vol.87, 2013 (Journal Indexed in SCI)
- **Efficacy and Safety of Hepatectomy Performed with Intermittent Portal Triad Clamping with Low Central Venous Pressure**
TOPALOĞLU S., CALIK K. Y. , ÇALIK A., AYDIN C., Kocuyigit S., YAMAN H., Kutanis D., KARABULUT E.,

DOHMAN D., ÖREM A., et al.

BIOMED RESEARCH INTERNATIONAL, 2013 (Journal Indexed in SCI)

- **Meson wave functions from holographic QCD and the role of infrared renormalons in proton-proton collisions**
Ahmadov A. I. , AYDIN C., KESKIN F.
ANNALS OF PHYSICS, vol.327, pp.1472-1483, 2012 (Journal Indexed in SCI)
- **Pion wave functions from holographic QCD and the role of infrared renormalons in photon-photon collisions**
Ahmadov A. I. , AYDIN C., KESKIN F.
PHYSICAL REVIEW D, vol.85, 2012 (Journal Indexed in SCI)
- **g_VS gamma coupling constant in light cone QCD**
AYDIN C., AYDIN S. H. , Keskin F., YILMAZ A. H.
PHYSICAL REVIEW D, vol.84, 2011 (Journal Indexed in SCI)
- **Distribution and occurrence of the insect pathogenic alga *Helicosporidium* sp. (Chlorophyta: Trebouxiophyceae) in the predator beetle *Rhizophagus grandis* Gyll. (Coleoptera: Rhizophagidae)-rearing laboratories**
Yaman M., TOSUN O., AYDIN C., Erturk O.
FOLIA MICROBIOLOGICA, vol.56, pp.44-48, 2011 (Journal Indexed in SCI)
- **Recalculation of the coupling constants $g(\rho \eta \gamma)$, $g(\omega \eta \gamma)$, $g(\eta' \rho \gamma)$, and $g(\eta' \omega \gamma)$ in QCD sum rules**
AYDIN C., BAYAR M., YILMAZ A. H.
PHYSICAL REVIEW D, vol.81, 2010 (Journal Indexed in SCI)
- **Single meson production in photon-photon collisions and infrared renormalons**
Ahmadov A. I. , AYDIN C., Dadashov E. A. , NAGIYEV S. M.
PHYSICAL REVIEW D, vol.81, 2010 (Journal Indexed in SCI)
- **Infrared renormalons and single meson production in proton-proton collisions**
Ahmadov A. I. , AYDIN C., NAGIYEV S. M. , Hakan Y. A. , Dadashov E. A.
PHYSICAL REVIEW D, vol.80, 2009 (Journal Indexed in SCI)
- **Bounds on the magnetic moment of the tau-neutrino via the process $e^{(+)}e^{(-)} \rightarrow \nu(\nu)\overline{\nu} \gamma$**
AYDIN C., BAYAR M., KILIC N.
CHINESE PHYSICS C, vol.32, pp.608-611, 2008 (Journal Indexed in SCI)
- **Investigation of $g(f_0 p \gamma)$ and coupling constants in light cone sum rules**
Aydin C., BAYAR M., Yilmaz A. H.
EUROPEAN PHYSICAL JOURNAL C, vol.48, pp.111-115, 2006 (Journal Indexed in SCI)
- **Investigation of $g(f_0 \omega \gamma)$ coupling constant in three point QCD sum rules and light cone sum rules**
Aydin C., Yilmaz A. H.
ACTA PHYSICA POLONICA B, vol.37, pp.1769-1779, 2006 (Journal Indexed in SCI)
- **Coupling constant $g \alpha \omicron \eta \gamma$ as derived from light-cone QCD sum rules**
Aydin C., Yilmaz A. H.
MODERN PHYSICS LETTERS A, vol.21, pp.1297-1303, 2006 (Journal Indexed in SCI)
- **$G(a_0 \rho \gamma)$ and $g(f_0 \rho \gamma)$ coupling constants in three point QCD sum rules**
Aydin C., BAYAR M., Yilmaz A. H.
PHYSICAL REVIEW D, vol.73, 2006 (Journal Indexed in SCI)
- **$g \phi \pi \gamma$ coupling constant in light-cone QCD sum rules**
Aydin C., Yilmaz A. H. , Bayar M.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.31, pp.611-616, 2005 (Journal Indexed in SCI)
- **Calculation of coupling constant $(g)\phi \pi \gamma$ in QCD sum rules**
Aydin C., Yilmaz A. H.
MODERN PHYSICS LETTERS A, vol.19, pp.2129-2134, 2004 (Journal Indexed in SCI)
- **QCD sum rule analysis of the coupling constants $g(\rho \eta \gamma)$ and $g(\omega \eta \gamma)$**
Aydin C., Yilmaz A. H.
ACTA PHYSICA POLONICA B, vol.34, pp.4145-4150, 2003 (Journal Indexed in SCI)

- **Z \rightarrow $\nu(\bar{\nu})\gamma$ decay in beyond standard model**
Aydin C., BAYAR M.
MODERN PHYSICS LETTERS A, vol.17, pp.785-793, 2002 (Journal Indexed in SCI)
- **The anapole moment of Dirac neutrinos in left-right symmetric model and in minimal supersymmetric model**
Aydin C.
MODERN PHYSICS LETTERS A, vol.16, pp.1823-1828, 2001 (Journal Indexed in SCI)
- **The ratios of energy losses through photoneutrino process in superstring inspired E-6 model and in the standard model**
AYDEMİR A., Aydin C., SEVER R.
MODERN PHYSICS LETTERS A, vol.16, pp.497-505, 2001 (Journal Indexed in SCI)
- **The processes $e^{+}e^{-}\rightarrow\mu^{+}\mu^{-}$, $\mu^{-}\rightarrow e^{-}(\bar{\nu}(e)\nu(\mu))$, $\mu^{-}\rightarrow e^{-}\gamma$ and heavy neutrino decay in the magnetic model**
ABAK M., Aydin C.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.11, pp.1329-1336, 1996 (Journal Indexed in SCI)
- **NEUTRINO-ELECTRON ELASTIC-SCATTERING AND STELLAR ENERGY-LOSS THROUGH ELECTRON-POSITRON PAIR ANNIHILATION IN THE MAGNETIC MODEL**
AYDIN C.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS, vol.105, pp.843-849, 1992 (Journal Indexed in SCI)
- **EXTENSIONS OF SU(2) \times U(1) MODELS AND THE FORM-FACTORS OF THE MASSIVE DIRAC NEUTRINOS**
ABAK M., AYDIN C.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS, vol.101, pp.597-606, 1989 (Journal Indexed in SCI)
- **CALCULATION OF THE ANAPOLE MOMENT OF THE NEUTRINO**
ABAK M., AYDIN C.
EUROPHYSICS LETTERS, vol.4, pp.881-885, 1987 (Journal Indexed in SCI)

Articles Published in Other Journals

- **High Twist Contributions quantum chromodynamics and inclusive meson photoproduction at large pT**
Sultanmuratoğlu F., AYDIN Ç., Ahmadov A. I.
News of Baku University, vol.4, pp.181-189, 2007 (International Refereed University Journal)

Book & Book Chapters

- **Problemlerle Kuantum Mekaniği**
Sultanmuratoğlu F., AYDIN Ç.
KtÜ, Trabzon, 1996

Refereed Congress / Symposium Publications in Proceedings

- **Form Factors of Massive Neutinos in Extended SU(2) \times U(1)**
Abak M., AYDIN Ç.
symmetry in science III, Austria, pp.507
- **Higher-Twist Mechanism and Inclusive Gluon Production in Pion-Proton Collisions**
Ahmadov A. I., AYDIN Ç., Myrzakulov R., UZUN O.
XXIII. International Conferences on Integrable Systems and Quantum Symmetries, Czech Republic
- **Direct Photon Production in Pion-Proton Collisions**
Ahmadov A. I., AYDIN Ç., UZUN O.

XXIV. International Conferences on Integrable Systems and Quantum Symmetries, Czech Republic

- **Calculations of $g(a_0\gamma)$, $g(f_0\gamma)$, $g(a_0\pi\gamma)$ and $g(f_0\pi\gamma)$ coupling constants in QCD sum rules**

AYDIN C., BAYAR M., YILMAZ A. H.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.185-186

Citations

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