

Prof. BERİN BELMA ŞİRVANLI

Personal Information

Office Phone: [+90 0312 202 1262](tel:+9003122021262)

Fax Phone: [+90 0312 202 1262](tel:+9003122021262)

Email: bbelma@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/bbelma>

International Researcher IDs

ORCID: 0000-0002-9570-2106

Publons / Web Of Science ResearcherID: AIC-6232-2022

Yoksis Researcher ID: 106359

Education Information

Doctorate, Gazi University, Fen Fakültesi, Fizik, Turkey 1995 - 2000

Postgraduate, Gazi University, Fen Fakültesi, Fizik, Turkey 1991 - 1993

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1985 - 1989

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Standart model'de Radiatif Bu->taunutaugamma Bozunumu, Gazi University, Fen Fakültesi, Fizik, 2000

Postgraduate, 1/N Açılımı, Gazi University, Fen Fakültesi, Fizik, 1993

Research Areas

Nuclear physics, Basic Particles and Areas

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2018 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2010 - Continues

Associate Professor, Josef Stefan Institute, Slovenia, Josef Stefan Institute, Physics Department, 2013 - 2013

Research Assistant PhD, CERN, Physics, 2006 - 2006

Research Assistant PhD, CERN, Physics, 2004 - 2004

Academic and Administrative Experience

Program Koordinatörü, Gazi University, Fen Fakültesi, 2007 - 2013

Courses

Kuantum Fiziği, Undergraduate, 2020 - 2021
Parçacık ve yüksek enerji fiziği, Undergraduate, 2020 - 2021
İLERİ KUANTUM MEKANİĞİ, Postgraduate, 2020 - 2021
Popüler Parçacık Fiziği, Undergraduate, 2020 - 2021
GENEL FİZİK I VE II, Undergraduate, 2020 - 2021

Advising Theses

ŞİRVANLI B. B., Searching of $Z \rightarrow b\bar{b}$ decay in the standard model, Postgraduate, S.Eren(Student), 2014
ŞİRVANLI B. B., SEARCHING OF HIGGS MECHANISM AND DECAY MODES IN THE STANDARD MODEL, Postgraduate, H.BARLAS(Student), 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Nucleon's Axial-Vector Form Factor in the Hard-Wall AdS/QCD Model**
Mamedov S., ŞİRVANLI B. B., Atayev I., Huseynova N.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.56, no.6, pp.1861-1874, 2017 (SCI-Expanded)
- II. **Search for $c \rightarrow u l^{(+)} l^{(-)}$ transition in charmed baryon decays**
Sirvanli B. B.
PHYSICAL REVIEW D, vol.93, no.3, 2016 (SCI-Expanded)
- III. **Rare $B_s \rightarrow \gamma \nu(\bar{\nu})$ Decay in Family Nonuniversal Z' Model**
Sirvanli B. B.
ADVANCES IN HIGH ENERGY PHYSICS, vol.2015, 2015 (SCI-Expanded)
- IV. **Lepton asymmetries for the $B_s \rightarrow \gamma l^{(+)} l^{(-)}$ decay in a family nonuniversal Z' model**
Sirvanli B. B.
PHYSICAL REVIEW D, vol.89, no.9, 2014 (SCI-Expanded)
- V. **DOUBLE-LEPTON POLARIZATION ASYMMETRIES IN $B \rightarrow K(1) l^{(+)} l^{(-)}$ DECAY IN UNIVERSAL EXTRA DIMENSION**
Sirvanli B. B.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.27, no.8, 2012 (SCI-Expanded)
- VI. **Double-lepton polarization asymmetries and branching ratio of the $B \rightarrow \gamma l^{(+)} l^{(-)}$ transition in universal extra dimension**
Azizi K., Pak N. K., Sirvanli B. B.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2012 (SCI-Expanded)
- VII. **Double-lepton polarization asymmetries and branching ratio in $B \rightarrow K^{0(*)}(1430) l^{(+)} l^{(-)}$ transition from universal extra dimension model**
Sirvanli B. B., Azizi K., Ipekoglu Y.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2011 (SCI-Expanded)
- VIII. **Semileptonic $\Lambda(b) \rightarrow \Lambda \nu(\bar{\nu})$ decay in the leptophobic Z' model**
Sirvanli B. B.
MODERN PHYSICS LETTERS A, vol.23, no.5, pp.347-358, 2008 (SCI-Expanded)
- IX. **Double-lepton polarization asymmetries in $\Lambda(b) \rightarrow \Lambda l^{(+)} l^{(-)}$ decay in universal extra dimension model**
ALIYEV T., Savci M., Sirvanli B. B.

- EUROPEAN PHYSICAL JOURNAL C, vol.52, no.2, pp.375-382, 2007 (SCI-Expanded)
- X. **A general analysis of the lepton polarizations in B-s \rightarrow γ l(+)l(-) decays**
Yilmaz U., Sirvanli B. B., Turan G.
NUCLEAR PHYSICS B, vol.692, pp.249-269, 2004 (SCI-Expanded)
- XI. **New physics effects in the rare B-s \rightarrow γ l(+)l(-) decays with a polarized photon**
Yilmaz U., Sirvanli B. B., Turan G.
EUROPEAN PHYSICAL JOURNAL C, vol.30, no.2, pp.197-205, 2003 (SCI-Expanded)
- XII. **RARE B-s \rightarrow $\nu(\bar{\nu})\gamma$ decay beyond the standard model**
Cakir O., Sirvanli B. B.
ACTA PHYSICA POLONICA B, vol.34, no.5, pp.2643-2649, 2003 (SCI-Expanded)
- XIII. **Rare B-s \rightarrow γ $\nu(\bar{\nu})$ decay with polarized photon and new physics effects**
Sirvanli B. B., Turan G.
MODERN PHYSICS LETTERS A, vol.18, no.1, pp.47-56, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sequential modelde Z yeni ayar bozonu için spin analizi**
ŞİRVANLI B. B.
Gazi University Journal of Science, vol.3, no.1, pp.395-399, 2015 (Scopus)
- II. **Search forward backward asymmetry due to the new Z gauge boson in e e collision**
ŞİRVANLI B. B.
Gazi University Journal of Science, vol.3, no.2, pp.27-29, 2015 (Scopus)
- III. **Rare B taunugamma decay and new physics effects**
ŞİRVANLI B. B.
Gazi University Journal of Science, vol.15, no.4, 2002 (ESCI)
- IV. **Radiative Bu \rightarrow gammataunu Decay in the Standart Model**
Şirvanlı B. B., Koru H.
Hadronic journal, no.22, pp.467-476, 1999 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **İlk dört bölüm**
YILMAZKAYA SÜNGÜ J., KIRCA Z., ŞİRVANLI B. B., DEMİR N.
in: Temel Parçacıklara Giriş, Gülsen Öngüt, Editor, Nobel, Ankara, pp.1-112, 2015
- II. **Gazların kinetik teorisi**
Şirvanlı B. B.
in: Fen Bilimcileri ve Mühendislik için Fizik, Prof.Dr.Gülsen Öngüt, Editor, Akademi yayıncılık, Massachusetts, pp.1-945, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **Spin Hamiltonian Investigations on Atomic Spin Gyroscope Using EasySpin Toolbox**
Hatipoglu H., ŞİRVANLI B. B.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- II. **The double lepton polarizations in Bs \rightarrow gammal+l- decays with two Higgs doublet model**
Şirvanlı B. B.
3rd International Conference on computational and experimental science and engineering (ICCESEN-2016),

Antalya, Turkey, 19 - 24 October 2016, vol.23, pp.234-239

- III. **Search for c l l transition in charmed baryon decays**
ŞİRVANLI B. B.
Kongre, 4 - 06 August 2014
- IV. **Double lepton polarization asymmetries in B K11 l decay in UED model**
ŞİRVANLI B. B.
kongre, 4 - 06 August 2009
- V. **Semileptonic Lambda b Lambda nunubar decay in the Leptophobic Zprime model**
ŞİRVANLI B. B.
kongre, 6 - 08 August 2007
- VI. **A general analysis of the lepton polarizations in the B s gammal l decay**
YILMAZ Ü. O., ŞİRVANLI B. B., TURAN G.
kongre, 7 - 09 August 2005
- VII. **Examine to rare D meson decay in TAC charm Fabric**
ÇAKIR O., SULTANOV S., ŞİRVANLI B. B., TURAN G.
kongre, Turkey, 2 - 04 August 2004
- VIII. **Rare B s gammal l decay and new physics effects**
ŞİRVANLI B. B.
kongre, 5 - 07 August 2002
- IX. **The radiative B s tau nu gamma meson decay in the standard model**
ŞİRVANLI B. B., koru h.
kongre, 2 - 04 August 1999
- X. **Shifted 1 N expansion apply to deuteron**
ŞİRVANLI B. B.
kongre, 5 - 07 August 1996

Expert Reports

- I. **PDOSE OSL DOZİMETRİ SİSTEMLERİNİN GELİŞTİRİLMESİ VE ÜRETİLMESİ**
Şirvanlı B. B.
KOSGEB, pp.10, Ankara, 2018

Supported Projects

Sultanov S., Şirvanlı B. B., Project Supported by Other Official Institutions, CLIC ÇARPIŞTICISINDA DEMET DİNAMĞİNİN FİZİK ARAŞTIRMALARINA ETKİSİ, 2006 - 2008
Çakır O., Şirvanlı B. B., Project Supported by Other Official Institutions, TÜRK HIZLANDIRICI KOMPLEKSİ, 2002 - 2005

Activities in Scientific Journals

International Journal of computational and Experimental Science and Engineering (IJCESEN), Editor, 2017 - Continues

Tasks In Event Organizations

Şirvanlı B. B., NUPAM-Monte Carlo Applications Spring School in Nuclear and Particle Physics, Science / Art Camp or Summer School Organization, Amasya, Turkey, Mayıs 2015
Şirvanlı B. B., ULUYEF13-II.Uludağ Yüksek Enerji Fiziği Kış Okulu-2013, Science / Art Camp or Summer School Organization, Bursa, Turkey, Şubat 2013

Şirvanlı B. B., NUPAM-Monte Carlo Applications Spring School in Nuclear and Particle Physics, Science / Art Camp or Summer School Organization, Bitlis, Turkey, Mayıs 2012

Şirvanlı B. B., ULUYEF12-II.Uludağ Yüksek Enerji Fiziği Kış Okulu-2012, Science / Art Camp or Summer School Organization, Bursa, Turkey, Şubat 2012

Metrics

Publication: 30

Citation (WoS): 96

Citation (Scopus): 83

H-Index (WoS): 6

H-Index (Scopus): 6

Scholarships

Scientific Research, Other International Organizations, 2013 - 2013

NATO, NATO, 1999 - 1999

Non Academic Experience

GAZİ ÜNİVERSİTESİ