

Prof. BANU ŞAHİN

Personal Information

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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2001 - 2006

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 1999 - 2001

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1995 - 1999

Dissertations

Doctorate, ep çarpışmasında üst kuarkın spin polarizasyonu, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2006

Postgraduate, Üst kuarkın tek üretimi, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 2001

Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 2016 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Fizik Bölümü, 2013 - 2016

Associate Professor, Zonguldak Bülent Ecevit University, Faculty Of Arts And Sciences, 2011 - 2013

Assistant Professor, Zonguldak Bülent Ecevit University, Faculty Of Arts And Sciences, 2009 - 2011

Research Assistant, Ankara University, Fen Fakültesi, Fizik Bölümü, 2002 - 2009

Academic and Administrative Experience

Ankara University, 2016 - Continues

Zonguldak Bülent Ecevit University, 2009 - 2013

Courses

FİZ112 Fizik II, Undergraduate, 2018 - 2019, 2017 - 2018

FİZ316 Elektromanyetik Teori, Undergraduate, 2018 - 2019, 2017 - 2018

FİZ307 Matematiksel Fizik II, Undergraduate, 2018 - 2019, 2017 - 2018

FİZ111 Fizik I, Undergraduate, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014

FİZ451 Özel Konular, Undergraduate, 2018 - 2019, 2017 - 2018, 2014 - 2015

807505Elektrodinamik I, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

FİZ307 Matematiksel Fizik-II, Undergraduate, 2016 - 2017

FİZ112 Fizik II(A ve B), Undergraduate, 2015 - 2016

FİZ202 Matematiksel Fizik-I, Undergraduate, 2015 - 2016

FİZ355 Kuantum Fiziği Lab., Undergraduate, 2015 - 2016

FİZ303 Teorik Mekanik, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

FİZ258 Optik Lab., Undergraduate, 2014 - 2015

FİZ202 MATEMATİKSEL FİZİK I, Undergraduate, 2014 - 2015, 2013 - 2014

FİZ152 Fizik II Lab. , Undergraduate, 2013 - 2014

Advising Theses

ŞAHİN B., ADD ek boyutlar modelinin CERN büyük hadron çarpıştırıcısında fotoüretim süreçleri ile incelenmesi, Doctorate, E.ALICI(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Search for the anomalous ZZH couplings at the CLIC**
Sahin B.
MODERN PHYSICS LETTERS A, vol.34, no.36, 2019 (SCI-Expanded)
- II. **Probing CP-violating WW gamma couplings in gamma p collision at the LHC**
Sahin B.
MODERN PHYSICS LETTERS A, vol.32, no.37, 2017 (SCI-Expanded)
- III. **Graviton production through photon-quark scattering at the LHC**
Sahin İ., Koksall M., Inan S. C., Billur A. A., Sahin B., Tektas P., Alici E., Yildirim R.
PHYSICAL REVIEW D, vol.91, no.3, 2015 (SCI-Expanded)
- IV. **Search for the Anomalous tq gamma and tqH Couplings in gamma p Collision at the LHC**
Sahin B.
ADVANCES IN HIGH ENERGY PHYSICS, vol.2015, 2015 (SCI-Expanded)
- V. **Probe of extra dimensions in gamma q -> gamma q at the LHC**
Sahin İ., Billur A. A., Inan S. C., Sahin B., Koksall M., Tektas P., Alici E., Yildirim R.
PHYSICAL REVIEW D, vol.88, no.9, 2013 (SCI-Expanded)
- VI. **Anomalous quartic ZZ gamma gamma couplings in gamma p collision at the LHC**
Sahin İ., Sahin B.
PHYSICAL REVIEW D, vol.86, no.11, 2012 (SCI-Expanded)
- VII. **Anomalous Wtb couplings in gamma p collision at the LHC**
Sahin B., BİLLUR A. A.
PHYSICAL REVIEW D, vol.86, no.7, 2012 (SCI-Expanded)
- VIII. **CP-violating WW gamma couplings in e gamma collision with polarized beams**
Sahin B.
PHYSICA SCRIPTA, vol.79, no.6, 2009 (SCI-Expanded)
- IX. **Probe of anomalous neutrino couplings to W and Z in medium energy setup of a beta-beam facility**
Balantekin A. B., Sahin İ., Sahin B.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2009 (SCI-Expanded)
- X. **Anomalous WWH couplings in gamma gamma collision with initial beams and final state polarizations**
Şahin B.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.36, no.2, 2009 (SCI-Expanded)
- XI. **Tests of flavor universality for neutrino-Z couplings in future neutrino experiments**
Balantekin A. B., Sahin İ., Sahin B.
PHYSICAL REVIEW D, vol.78, no.7, 2008 (SCI-Expanded)
- XII. **Unparticle physics in the Moller scattering**
Sahin İ., Sahin B.
EUROPEAN PHYSICAL JOURNAL C, vol.55, no.2, pp.325-328, 2008 (SCI-Expanded)
- XIII. **Polarized single top quark production in e gamma collision and anomalous W tb couplings**

Sahin B., Sahin İ.

EUROPEAN PHYSICAL JOURNAL C, vol.54, no.3, pp.435-441, 2008 (SCI-Expanded)

XIV. **Top quark spin polarization in e gamma collision**

Sahin B., Sahin İ.

MODERN PHYSICS LETTERS A, vol.23, no.7, pp.519-525, 2008 (SCI-Expanded)

XV. **Effect of top quark spin on the Wtb couplings in e(+)p collisions**

Atag S., Sahin B.

PHYSICAL REVIEW D, vol.73, no.7, 2006 (SCI-Expanded)

XVI. **Top quark spin in ep collision**

Atag S., Sahin B.

PHYSICAL REVIEW D, vol.69, no.3, 2004 (SCI-Expanded)

XVII. **Anomalous Wtb coupling in ep collision**

Atag S., Cakir O., Dilec B.

PHYSICS LETTERS B, vol.522, no.1-2, pp.76-82, 2001 (SCI-Expanded)

Articles Published in Other Journals

I. **Güneş Nötrinolarının Salınımında Çeşni Evrenselliğini Bozan Nötrino Etkileşmelerinin İncelenmesi**

ŞAHİN İ., ŞAHİN B., YILMAZ D.

Cumhuriyet Üniversitesi Fen Bilimleri Dergisi, vol.29, no.2, pp.26-36, 2008 (Peer-Reviewed Journal)

Metrics

Publication: 18

Citation (WoS): 175

Citation (Scopus): 176

H-Index (WoS): 7

H-Index (Scopus): 6