

## Prof. HAYRİYE SUNDU PAMUK

### Personal Information

**Mobile Phone:** [+90 505 290 0706](tel:+905052900706)

**Office Phone:** [+90 262 303 2065](tel:+902623032065)

**Email:** [hayriye.sundu@kocaeli.edu.tr](mailto:hayriye.sundu@kocaeli.edu.tr)

**Other Email:** [hayriyesundupamuk@gmail.com](mailto:hayriyesundupamuk@gmail.com)

**Web:** <https://avesis.kocaeli.edu.tr/hayriye.sundu>

**Address:** Kocaeli Üniversitesi Umuttepe Yerleşkesi Fen Edebiyat Fakültesi Fizik Bölümü KOCAELİ

### Education Information

Doctorate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2003 - 2007

Post Graduate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1999 - 2003

Under Graduate, Balıkesir Üniversitesi, Necatibey Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1994 - 1998

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Physics, Basic Particles and Areas, Properties of special particles, Special reactions and phenomenology, Special theories and interaction models, particle systematics, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2013 - Continues

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2008 - 2013

Research Assistant, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2007 - 2007

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2000 - 2007

### Professional Experience

Deputy Head of Department, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2013 - Continues

### Courses

İleri Kuantum Mekaniği, Doctorate, 2017 - 2018

### Advising Theses

SUNDU PAMUK H., Ekzotik X(5568) ve Lamda(1405) Parçacıklarının İncelenmesi, Post Graduate, B.Barsbay(Student), 2017  
SUNDU PAMUK H., AKSİYAL-VEKTÖR MEZONLARIN KÜTLE VE LEPTONİK BOZUNUM SABİTLERİNİN HESAPLANMASI VE KÖŞELERİNİN ANALİZİ, Post Graduate, S.Şahin(Student), 2011

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

- I. **Determination of the possible quantum numbers for the newly observed  $\Xi(b)(6227)(0)$  state**  
Azizi K., Sarac Y., Sundu H.  
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2021 (Journal Indexed in SCI)
- II. **Semileptonic and nonleptonic decays of the axial-vector tetraquark  $T_{bb};(u)\overline{bar}(d)\overline{bar}(-)$**   
Agaev S. S. , Azizi K., Barsbay B., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.57, no.3, 2021 (Journal Indexed in SCI)
- III. **A family of double-beauty tetraquarks: Axial-vector state  $T_{bb};(us)\overline{bar}(-)$**   
Agaev S. S. , Azizi K., Barsbay B., Sundu H.  
CHINESE PHYSICS C, vol.45, 2021 (Journal Indexed in SCI)
- IV. **The scalar hexaquark  $uuddss$ : a candidate to dark matter?**  
Azizi K., Agaev S. S. , Sundu H.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.47, 2020 (Journal Indexed in SCI)
- V. **Nucleon resonances with spin 3/2 and isospin 1/2**  
Azizi K., Sarac Y., Sundu H.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.47, 2020 (Journal Indexed in SCI)
- VI. **New  $\Lambda(b)(6072)(0)$  state as a 2S bottom baryon**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.102, 2020 (Journal Indexed in SCI)
- VII. **Stable scalar tetraquark  $T_{bb};(u)\overline{bar}(d)\overline{bar}(-)$**   
Agaev S. S. , Azizi K., Barsbay B., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.56, 2020 (Journal Indexed in SCI)
- VIII. **Heavy exotic scalar meson  $T(bb)\overline{bar};(u)\overline{bar}(s)\overline{bar}$**   
Agaev S. S. , Azizi K., Barsbay B., Sundu H.  
PHYSICAL REVIEW D, vol.101, 2020 (Journal Indexed in SCI)
- IX.  **$\Lambda(b)(6146)(0)$  state newly observed by LHCb**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.101, 2020 (Journal Indexed in SCI)
- X. **Nature of the vector resonance  $Y(2175)$**   
Agaev S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.101, 2020 (Journal Indexed in SCI)
- XI. **Double-heavy axial-vector tetraquark  $T_{bc};(u)\overline{bar}(d)\overline{bar}(0)$**   
Agaev S. S. , Azizi K., Sundu H.  
NUCLEAR PHYSICS B, vol.951, 2020 (Journal Indexed in SCI)
- XII. **Thermal behaviors of exotic  $Z(c)(3900)$  state in tetraquark approach**  
Isik I. B. , Sundu H., Veliev E.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, 2020 (Journal Indexed in SCI)
- XIII. **Light scalar  $K_0^*(700)$  meson in vacuum and a hot medium**  
Azizi K., Barsbay B., Sundu H.  
PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)
- XIV. **Decay modes of the scalar exotic meson  $T_{bs};(u)\overline{bar}(d)\overline{bar}(-)$**   
Agaev S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.100, 2019 (Journal Indexed in SCI)
- XV. **Light axial-vector and vector resonances  $X(2100)$  and  $X(2239)$**

- Azizi K., Agaev S. S. , Sundu H.  
 NUCLEAR PHYSICS B, vol.948, 2019 (Journal Indexed in SCI)
- XVI. **Semileptonic decays of the scalar tetraquark  $Z_{bc};ud(0)$**   
 Sundu H., Agaev S. S. , Azizi K.  
 EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (Journal Indexed in SCI)
- XVII. **Lepton flavor universality violation in semileptonic tree level weak transitions**  
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.99, 2019 (Journal Indexed in SCI)
- XVIII. **Strong decays of double-charmed pseudoscalar and scalar  $cc(u)\overline{(d)}\overline{(d)}$  tetraquarks**  
 Agaev S. S. , Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.99, 2019 (Journal Indexed in SCI)
- XIX. **Determination of the quantum numbers of  $\Sigma(b)(6097)(+/-)$  via their strong decays**  
 Aliev T. M. , Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.99, 2019 (Journal Indexed in SCI)
- XX. **New charged resonance  $Z(c)(-)(4100)$ : the spectroscopic parameters and width**  
 Sundu H., Agaev S. S. , Azizi K.  
 EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (Journal Indexed in SCI)
- XXI. **The nonet of the light scalar tetraquarks: The mesons  $a(0)(980)$  and  $K-0^*(800)$**   
 AGAEV S. S. , Azizi K., Sundu H.  
 PHYSICS LETTERS B, vol.789, pp.405-412, 2019 (Journal Indexed in SCI)
- XXII. **Weak decays of the axial-vector tetraquark  $T_{bb};(u)\overline{(d)}\overline{(d)}$**   
 AGAEV S. S. , Azizi K., BARSBAY B., Sundu H.  
 PHYSICAL REVIEW D, vol.99, 2019 (Journal Indexed in SCI)
- XXIII. **The doubly charmed pseudoscalar tetraquarks  $T_{cc};(s)\overline{(s)}\overline{(s)}++$  and  $T_{cc};(d)\overline{(s)}\overline{(s)}++$**   
 AGAEV S. S. , Azizi K., BARSBAY B., Sundu H.  
 NUCLEAR PHYSICS B, vol.939, pp.130-144, 2019 (Journal Indexed in SCI)
- XXIV. **Structure of the  $\Xi(b)(6227)(-)$  resonance**  
 Aliev T. M. , Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)
- XXV. **Nature of the  $\Omega(2012)$  through its strong decays**  
 Aliev T. M. , Azizi K., Sarac Y., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.78, 2018 (Journal Indexed in SCI)
- XXVI. **On the nature  $\Xi(c)(2930)$**   
 Aliev T. M. , AZIZI K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL A, vol.54, 2018 (Journal Indexed in SCI)
- XXVII. **Resonance  $Y(4660)$  as a vector tetraquark and its strong decay channels**  
 Sundu H., AGAEV S. S. , Azizi K.  
 PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)
- XXVIII. **The strong decays of the light scalar mesons  $f(0)(500)$  and  $f(0)(980)$**   
 AGAEV S. S. , Azizi K., Sundu H.  
 PHYSICS LETTERS B, vol.784, pp.266-270, 2018 (Journal Indexed in SCI)
- XXIX. **Possible molecular pentaquark states with different spin and quark configurations**  
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)
- XXX. **Interpretation of the newly discovered  $\Omega(2012)$**   
 Aliev T. M. , Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.98, 2018 (Journal Indexed in SCI)
- XXXI. **Probing an axial-vector tetraquark  $Z(s)$  via its semileptonic decay  $Z(s) \rightarrow X(4274)(I)\overline{\nu}(I)$**   
 Sundu H., BARSBAY B., AGAEV S. S. , Azizi K.  
 EUROPEAN PHYSICAL JOURNAL A, vol.54, 2018 (Journal Indexed in SCI)

- XXXII. **Strong decay of P-c (4380) pentaquark in a molecular picture**  
Azizi K., Sarac Y., Sundu H.  
PHYSICS LETTERS B, vol.782, pp.694-701, 2018 (Journal Indexed in SCI)
- XXXIII. **The structure, mixing angle, mass and couplings of the light scalar  $f(0)(500)$  and  $f(0)(980)$  mesons**  
AGAEV S. S. , Azizi K., Sundu H.  
PHYSICS LETTERS B, vol.781, pp.279-282, 2018 (Journal Indexed in SCI)
- XXXIV. **Analysis of the structure of  $\Xi(1690)$  through its decays**  
Aliev T. M. , AZIZI K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.78, 2018 (Journal Indexed in SCI)
- XXXV. **Thermal properties of the exotic  $X(3872)$  state via QCD sum rule**  
Veliev E., GÜNAYDIN S., Sundu H.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, 2018 (Journal Indexed in SCI)
- XXXVI. **Mass and residue of  $\Lambda(1405)$  as hybrid and excited ordinary baryon**  
Azizi K., BARSBAY B., Sundu H.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, 2018 (Journal Indexed in SCI)
- XXXVII. **New  $a(1)(1420)$  state: Structure, mass, and width**  
Sundu H., AGAEV S. S. , Azizi K.  
PHYSICAL REVIEW D, vol.97, 2018 (Journal Indexed in SCI)
- XXXVIII. **Testing the doubly charged charm-strange tetraquarks**  
AGAEV S. S. , Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.78, 2018 (Journal Indexed in SCI)
- XXXIX. **Spectroscopic parameters and decays of the resonance  $Z(b)(10610)$**   
AGAEV S. S. , Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.77, 2017 (Journal Indexed in SCI)
- XL. **Hidden bottom pentaquark states with spin  $3/2$  and  $5/2$**   
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.96, 2017 (Journal Indexed in SCI)
- XLI. **Decay widths of the excited  $\Omega(b)$  baryons**  
AGAEV S. S. , AZIZI K., Sundu H.  
PHYSICAL REVIEW D, vol.96, 2017 (Journal Indexed in SCI)
- XLII. **Treating  $Z(c)(3900)$  and  $Z(4430)$  as the ground state and first radially excited tetraquarks**  
AGAEV S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.96, 2017 (Journal Indexed in SCI)
- XLIII. **Interpretation of the new  $\Omega(0)(c)$  states via their mass and width**  
AGAEV S. S. , Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.77, 2017 (Journal Indexed in SCI)
- XLIV. **Exploring the resonances  $X(4140)$  and  $X(4274)$  through their decay channels**  
AGAEV S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.95, 2017 (Journal Indexed in SCI)
- XLV. **On the nature of the newly discovered  $\Omega$  states**  
AGAEV S. S. , Azizi K., Sundu H.  
EPL, vol.118, 2017 (Journal Indexed in SCI)
- XLVI. **Analysis of P-c(+)(4380) and P-c(+)(4450) as pentaquark states in the molecular picture with QCD sum rules**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.95, 2017 (Journal Indexed in SCI)
- XLVII. **Open charm-bottom axial-vector tetraquarks and their properties**  
AGAEV S. S. , Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.77, 2017 (Journal Indexed in SCI)
- XLVIII. **Radial excitations of the decuplet baryons**  
Aliev T. M. , Azizi K., Sundu H.

- EUROPEAN PHYSICAL JOURNAL C, vol.77, 2017 (Journal Indexed in SCI)
- XLIX. **Scalar and vector self-energies of heavy baryons in nuclear medium**  
Azizi K., Er N., Sundu H.  
NUCLEAR PHYSICS A, vol.960, pp.147-164, 2017 (Journal Indexed in SCI)
- L. **Open charm-bottom scalar tetraquarks and their strong decays**  
AGAEV S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.95, 2017 (Journal Indexed in SCI)
- LI. **Resonance X(5568) as an exotic axial-vector state**  
AGAEV S. S. , Azizi K., BARSBAY B., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.53, 2017 (Journal Indexed in SCI)
- LII. **Mass and magnetic dipole moment of negative-parity heavy baryons with spin-3/2**  
Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.132, 2017 (Journal Indexed in SCI)
- LIII. **Impact of finite density on spectroscopic parameters of decuplet baryons**  
Azizi K., Er N., Sundu H.  
PHYSICAL REVIEW D, vol.94, 2016 (Journal Indexed in SCI)
- LIV. **Exploring X(5568) as a meson molecule**  
AGAEV S. S. , Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.131, 2016 (Journal Indexed in SCI)
- LV. **Application of the QCD light cone sum rule to tetraquarks: The strong vertices  $X_b X_b \rho$  and  $X_c X_c \rho$**   
Agaev S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.93, 2016 (Journal Indexed in SCI)
- LVI. **Width of the exotic X-b(5568) state through its strong decay to  $B-s(0)\pi(+)$**   
AGAEV S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.93, 2016 (Journal Indexed in SCI)
- LVII. **Charmed partner of the exotic X(5568) state and its properties**  
Agaev S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.93, 2016 (Journal Indexed in SCI)
- LVIII. **On the strong coupling  $N(*)N(*)\pi$**   
Azizi K., Sarac Y., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.52, pp.1-9, 2016 (Journal Indexed in SCI)
- LIX. **Mass and decay constant of the newly observed exotic X(5568) state**  
Agaev S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.93, 2016 (Journal Indexed in SCI)
- LX. **Strong  $Z(c)(+)(3900) \rightarrow J/\psi \pi(+)$ ;  $\eta_c \rho(+)$  decays in QCD**  
AGAEV S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.93, 2016 (Journal Indexed in SCI)
- LXI.  **$B(c)B(c)J/\psi$  vertex form factor at finite temperature in the framework of QCD sum rules approach**  
YAZICI E., Sundu H., Veliev E.  
EUROPEAN PHYSICAL JOURNAL C, vol.76, 2016 (Journal Indexed in SCI)
- LXII. **Transition Form Factors of  $\chi(b_2)(1P) \rightarrow B-c(l)\overline{\text{bar}}v$  in QCD**  
Azizi K., Sundu H., Sungu J., YINELEK N.  
ADVANCES IN HIGH ENERGY PHYSICS, 2016 (Journal Indexed in SCI)
- LXIII. **Strong  $D-s^*D-s \eta(\prime)$  and  $B-s^*B-s \eta(\prime)$  vertices from QCD light-cone sum rules**  
Agaev S. S. , Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.92, 2015 (Journal Indexed in SCI)
- LXIV. **Strong  $\Sigma N-b B$  and  $\Sigma N-c D$  coupling constants in QCD**  
Azizi K., Sarac Y., Sundu H.  
NUCLEAR PHYSICS A, vol.943, pp.159-167, 2015 (Journal Indexed in SCI)
- LXV. **Positive and negative parity hyperons in nuclear medium**

- Azizi K., Er N., Sundu H.  
PHYSICAL REVIEW D, vol.92, 2015 (Journal Indexed in SCI)
- LXVI. **Strong couplings of negative and positive parity nucleons to the heavy baryons and mesons**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.92, 2015 (Journal Indexed in SCI)
- LXVII. **Radiative transition of negative to positive parity nucleon**  
Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.91, 2015 (Journal Indexed in SCI)
- LXVIII. **Semileptonic  $B_s \rightarrow D_s 2^*(2573) 1(\nu)$  transition in QCD**  
Azizi K., Sundu H., ŞAHİN S.  
EUROPEAN PHYSICAL JOURNAL C, vol.75, no.5, 2015 (Journal Indexed in SCI)
- LXIX. **Semileptonic  $B \rightarrow (\bar{D})$  transition in a nuclear medium**  
Azizi K., Er N., Sundu H.  
PHYSICAL REVIEW D, vol.91, 2015 (Journal Indexed in SCI)
- LXX. **Radiative  $\Omega(Q)^* \rightarrow \Omega(Q)\gamma$  and  $\Xi(Q)^* \rightarrow \Xi(Q)\gamma$  transitions in light cone QCD**  
Aliiev T. M. , Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.75, 2015 (Journal Indexed in SCI)
- LXXI. **Thermal Properties of Light Tensor Mesons via QCD Sum Rules**  
Azizi K., TÜRKAN A., Veliev E., Sundu H.  
ADVANCES IN HIGH ENERGY PHYSICS, 2015 (Journal Indexed in SCI)
- LXXII. **Strong  $\Lambda_{bN}$  and  $\Lambda_{cN}$  vertices**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.90, 2014 (Journal Indexed in SCI)
- LXXIII. **Semileptonic Transition of Tensor  $c_2 1P$  to  $D_s D_s$  Meson**  
YILMAZKAYA SÜNGÜ J., SUNDU PAMUK H., AZIZI K.  
Advances In High Energy Physics, 2014 (Journal Indexed in SCI)
- LXXIV. **Analysis of the strong  $D-2^*(2460)(0) \rightarrow D + \pi(-)$  and  $D-s_2^*(2573)(+) \rightarrow D + K-0$  transitions via QCD sum rules**  
Azizi K., Sarac Y., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.74, 2014 (Journal Indexed in SCI)
- LXXV. **More about the  $B B$  and  $D D$  mesons in nuclear matter**  
AZIZI K., ER N., SUNDU PAMUK H.  
European Physical Journal C, vol.74, 2014 (Journal Indexed in SCI)
- LXXVI. **Thermal properties of  $D-2^*(2460)$  and  $D-s_2^*(2573)$  tensor mesons using QCD sum rules**  
Azizi K., Sundu H., TURKAN A., Veliev E.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.41, 2014 (Journal Indexed in SCI)
- LXXVII. **Semileptonic Transition of Tensor  $\chi(c_2)(1P)$  to  $D-s$  Meson**  
Sungu J. Y. , Sundu H., Azizi K.  
ADVANCES IN HIGH ENERGY PHYSICS, 2014 (Journal Indexed in SCI)
- LXXVIII. **THERMAL PROPERTIES OF THE HEAVY AXIAL VECTOR QUARKONIA**  
Veliev E., Azizi K., Sundu H., Kaya G.  
ROMANIAN JOURNAL OF PHYSICS, vol.59, pp.140-154, 2014 (Journal Indexed in SCI)
- LXXIX. **Investigation of the  $B-c \rightarrow \chi(c_2)1(\nu)$  transition via QCD sum rules**  
Azizi K., Sarac Y., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.73, 2013 (Journal Indexed in SCI)
- LXXX. **Investigation of the  $D(s) D-s \eta(')$  and  $B(s) B-s \eta(')$  vertices via QCD sum rules**  
YAZICI E., Veliev E., Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.128, 2013 (Journal Indexed in SCI)
- LXXXI. **Investigation of the semileptonic transition of the  $B$  into the orbitally excited charmed tensor meson**  
Azizi K., Sundu H., ŞAHİN S.  
PHYSICAL REVIEW D, vol.88, no.3, 2013 (Journal Indexed in SCI)

- LXXXII. **Properties of  $D_s2$  2573 charmed strange tensor meson**  
AZIZI K., SUNDU PAMUK H., SÜNGÜ J., YİNELEK N.  
Physical Review D, vol.88, 2013 (Journal Indexed in SCI)
- LXXXIII. **Semileptonic transition of P-wave bottomonium  $\chi(b_0)(1P)$  to B-c meson**  
Azizi K., Sundu H., Sungu J.  
EUROPEAN PHYSICAL JOURNAL A, vol.48, 2012 (Journal Indexed in SCI)
- LXXXIV. **Mass and meson-current coupling constant of the tensor  $D-2^*(2460)$**   
Sundu H., Azizi K.  
EUROPEAN PHYSICAL JOURNAL A, vol.48, 2012 (Journal Indexed in SCI)
- LXXXV. **Semileptonic transition of  $\Sigma(b)$  to  $\Sigma$  in light cone QCD sum rules**  
Azizi K., BAYAR M., ÖZPİNECİ A., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.85, no.1, 2012 (Journal Indexed in SCI)
- LXXXVI. **Investigation of heavy-heavy pseudoscalar mesons in thermal QCD sum rules**  
Veliev E., Azizi K., Sundu H., AKŞİT N.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.39, 2012 (Journal Indexed in SCI)
- LXXXVII. **Light cone QCD sum rules study of the semileptonic heavy  $\Xi(Q)$  and  $\Xi(Q)'$  transitions to  $\Xi$  and  $\Sigma$  baryons**  
Azizi K., Sarac Y., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.48, 2012 (Journal Indexed in SCI)
- LXXXVIII. **Thermal QCD sum rules study of vector charmonium and bottomonium states**  
Veliev E., Azizi K., Sundu H., KAYA G., TÜRKAN A.  
EUROPEAN PHYSICAL JOURNAL A, vol.47, 2011 (Journal Indexed in SCI)
- LXXXIX. **Strong coupling constants of bottom and charmed mesons with scalar, pseudoscalar, and axial vector kaons**  
Sundu H., Sungu J. Y. , ŞAHİN S., YİNELEK N., Azizi K.  
PHYSICAL REVIEW D, vol.83, no.11, 2011 (Journal Indexed in SCI)
- XC.  **$g_D(s)*DK^*(892)$  and  $g_B(s)*BK^*(892)$  coupling constants in QCD sum rules**  
Azizi K., Sundu H.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.38, 2011 (Journal Indexed in SCI)
- XCI. **FCNC transitions of  $\Lambda(b,c)$  to nucleon in SM**  
Azizi K., BAYAR M., Sarac Y., Sundu H.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.37, no.11, 2010 (Journal Indexed in SCI)
- XCII. **Scalar quarkonia at finite temperature**  
Veliev E., Sundu H., Azizi K., BAYAR M.  
PHYSICAL REVIEW D, vol.82, no.5, 2010 (Journal Indexed in SCI)
- XCIII. **Semileptonic  $\Lambda(b,c)$  to nucleon transitions in full QCD at light cone**  
Azizi K., BAYAR M., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.80, no.9, 2009 (Journal Indexed in SCI)
- XCIV. **Semileptonic B-c to P-wave charmonia transitions within QCD sum rules**  
Azizi K., Sundu H., BAYAR M.  
PHYSICAL REVIEW D, vol.79, no.11, 2009 (Journal Indexed in SCI)
- XCV. **The decay  $\tau \rightarrow \mu(\nu)\overline{\nu}(i)$  in the Randall-Sundrum background with localized  $U(1)(Y)$  gauge boson**  
İltan E. O. , Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.53, pp.591-598, 2008 (Journal Indexed in SCI)
- XCVI.  **$\tau \rightarrow \mu(\nu)\overline{\nu}(i)$  decay in the general two Higgs doublet model**  
İLTAN E., Sundu H.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.29, pp.1373-1382, 2003 (Journal Indexed in SCI)
- XCVII. **Anomalous magnetic moment of the muon in the two Higgs doublet model**  
İLTAN E., Sundu H.  
ACTA PHYSICA SLOVACA, vol.53, pp.17-24, 2003 (Journal Indexed in SCI)

XCVIII. **H<sup>+</sup> → W<sup>+</sup> + i<sub>l</sub> + i<sub>l</sub> decay in the two Higgs doublet model**

ILTAN E., SUNDU H.

PHYSICAL REVIEW D, vol.67, 2003 (Journal Indexed in SCI)

### Articles Published in Other Journals

I. **Four-quark exotic mesons**

Agaev S., AZİZİ K., SUNDU PAMUK H.

TURKISH JOURNAL OF PHYSICS, vol.44, no.2, pp.95-173, 2020 (Journal Indexed in ESCI)

II. **The Mass and Current Meson Coupling Constant of the Exotic X 3872 State from QCD Sum Rules**

SUNDU PAMUK H.

SDÜ Fen Bilimleri Enstitüsü Dergisi, vol.20, pp.448, 2016 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

I. **Thermal QCD sum rules for Z<sub>c</sub>(3900) Treated as a Tetraquark State**

Baldan Işık İ., Sundu Pamuk H., Velî E.

Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 10 May - 10 September 2018, vol.34, pp.352

II. **Thermal Properties of the Tetraquark X(3872) in Diquark-antidiquark Approach**

VELİ E., Günaydın S., SUNDU PAMUK H.

Proceedings of XVII International Conference on Hadron Spectroscopy and Structure — PoS(Hadron2017), University of Salamanca, Salamanca, Spain, 25 - 29 September 2017

III. **Hybrid Baryons**

barsbay b., SUNDU PAMUK H.

Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017

IV. **Thermal QCD Sum Rules for X(3872) treated as a molecular state**

VELİ E., SUNDU PAMUK H., gunaydın s.

Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017

V. **In medium properties of B and D mesons**

SUNDU PAMUK H., Azizi K., ER N.

7th International Workshop on QCD - Theory and Experiment (QCD@Work 2014), 16 - 19 June 2016, vol.80, pp.36

VI. **Decay constants of the charmed tensor mesons at finite temperature**

azizi k., SUNDU PAMUK H., türkan a., VELİ E.

11th Conference on Quark Confinement and the Hadron Spectrum, Saint Petersburg, Russia, 8 - 12 September 2014

VII. **Investigation of the D s<sub>2</sub> 2573 D K 0 vertex via QCD sum rules**

Sarac Y., Azizi K., SUNDU PAMUK H.

4th International Conference on Hadron Physics (TROIA'14), Çanakkale, Turkey, 1 - 05 July 2014

VIII. **Thermal behaviors of light unflavored tensor mesons in the framework of QCD sum rule**

Azizi K., Türkan A., SUNDU PAMUK H., Veliev E. V., Yazıcı E.

4th International Conference on Hadron Physics (TROIA'14), 1 - 05 July 2014

IX. **Strong D\*(2)(2460)(0) → D + π(-) Transition in QCD**

Sarac Y., Azizi K., Sundu H.

International Workshop on Quantum Chromodynamics - Theory and Experiment, Bari, Italy, 16 - 19 June 2014, vol.80

X. **Properties of D<sub>2</sub> 2460 tensor meson and semileptonic transition of B D<sub>2</sub> 2460 l**

SUNDU PAMUK H., Azizi K., Şahin S.

7th Joint International Hadron Structure'13 Conference (HS 13), 30 June - 04 July 2013

XI. **Analysis of the semileptonic transition of heavy Q baryon to baryon in Light Cone QCD Sum Rules**



Sarac Y., Azizi K., SUNDU PAMUK H.

7th Joint International Hadron Structure'13 Conference (HS 13), 30 June - 04 July 2013

- XII. **Thermal Modifications of the Heavy Axial Vector Mesons Properties**  
veliev e. v. , azizi k., SUNDU PAMUK H., kaya g.  
10th Conference on Quark Confinement and the Hadron Spectrum (Confinement X), 8 October - 12 August 2012
- XIII.  **$g_{D^* s D} K^0$  and  $g_{B^* s B} K^0$  coupling constants in QCD sum rules**  
sahin s., SUNDU PAMUK H., azizi k.  
3rd International Conference on Hadron Physics (TROIA'11), 22 - 25 August 2012
- XIV. **Analysis of  $D^* s DK^0$  and  $B^* s BK^0$  coupling constants within QCD sum rules**  
Yinelek N., Süngü J. Y. , SUNDU PAMUK H., Azizi K.  
3rd International Conference on Hadron Physics (TROIA'11), 22 - 25 August 2012
- XV. **Transition form factors of P wave bottomonium  $b_0$  1P into Bc meson**  
Süngü J. Y. , Azizi K., SUNDU PAMUK H.  
6th International Workshop on QCD - Theory and Experiment (QCD@Work 2012), Lecce, Italy, 18 - 21 June 2012
- XVI. **Decay constants of heavy vector mesons at finite temperature**  
VELİ E., AZİZİ K., SUNDU PAMUK H., KAYA G., TÜRKAN A.  
2nd International Conference on Particle Physics, 20 - 25 June 2011, pp.12034
- XVII. **Mesons Spectral Functions at Finite Temperature**  
VELİ E., AZİZİ K., SUNDU PAMUK H., KAYA G., AKŞİT N.  
3rd International Conference on Hadron Physics (TROIA'11), 22 - 25 August 2011
- XVIII. **Heavy Light Scalar and Axial Vector Mesons Decay Constants and Masses in QCD Sum Rule Approach**  
YILMAZKAYA SÜNGÜ J., azizi k., SUNDU PAMUK H., yinelek n., sahin s.  
The many faces of QCD, 1 - 05 November 2010, vol.45
- XIX. **Leptonic Decay Constant and Mass of the Light Axial Vector Mesons in the Framework of Qcd Sum Rules**  
sahin s., SUNDU PAMUK H., azizi k.  
Turk Fizik Dernegi Kongresi, 22 February 2012, vol.20, pp.99-111
- XX. **Light Scalar Mesons Decay Constants and Masses Within QCD Sum Rules**  
yinelek n., jale s., azizi k., SUNDU PAMUK H.  
Turk Fizik Dernegi Kongresi, 12 - 15 August 2012, vol.20, pp.133-143
- XXI. **Decay constants of heavy vector mesons at finite temperature**  
Veliev E. V. , Azizi K., SUNDU PAMUK H., Kaya G., Türkan A.  
2nd International Conference on Particle Physics: In Memoriam Engin Arik and Her Colleagues, 20 - 27 June 2012
- XXII. **Mesons Spectral Functions at Finite Temperature**  
Veliev E., Azizi K., SUNDU PAMUK H., Kaya G., Akşit N.  
3rd International Conference on Hadron Physics (TROIA), Çanakkale, Turkey, 22 - 25 August 2011, vol.348
- XXIII. **Analyses of  $g_{D^* s DK}$  and  $g_{B^* s BK}$  vertices in QCD sum rules**  
YILMAZKAYA SÜNGÜ J., SUNDU PAMUK H., Azizi K.  
2nd International Conference on Particle Physics: In Memoriam Engin Arik and Her Colleagues, 20 June - 27 August 2011, vol.347, pp.12035
- XXIV. **The Thermal Properties of Pseudoscalar Heavy Quarkonium**  
veli veliev e., azizi k., SUNDU PAMUK H., aksit n.  
2011 Europhysics Conference on High Energy Physics (EPS-HEP 2011), 21 - 27 July 2011, vol.444
- XXV. **The Thermal Properties of Pseudoscalar Heavy Quarkonium**  
VELİ E., AZİZİ K., SUNDU PAMUK H., AKŞİT N.  
The 2011 Europhysics Conference on High Energy Physics-HEP 2011, 21 - 27 July 2011
- XXVI. **B c Meson at Finite Temperature**  
VELİ E., AZİZİ K., SUNDU PAMUK H., AKŞİT N.  
Hadron Structure' 2011, 27 June - 01 July 2011, pp.170
- XXVII. **Heavy Light Mesons Decay Constants and Masses in QCD Sum Rule Approach**  
YILMAZKAYA SÜNGÜ J., SUNDU PAMUK H., AZİZİ K., Yinelek N.

The Many Faces of QCD, 04 November 2010, vol.45, pp.1-10

- XXVIII. **Semileptonic B sub c to P Wave Charmonia sub c0 sub c1 h sub c Transitions within QCD Sum Rules**  
SUNDU PAMUK H., Azizi K., BAYAR NUHOĞLU M.  
5th International Workshop on QCD - Theory and Experiment (QCD@Work 2010), Martina Franca, (Italy), 20 - 23 June 2010
- XXIX. **Semileptonic Bc to P-Wave Charmonia (Xc, Xc1, hc) Transitions within QCD Sum Rules**  
Sundu H., Azizi K., BAYAR M.  
International Workshop on Quantum Chromodynamics: Theory and Experiment, Martina Franca, Italy, 20 - 23 June 2010, vol.1317, pp.298-299

## Supported Projects

- SUNDU PAMUK H., Project Supported by Higher Education Institutions, Dört Quarklı Yapıların Yarı-Leptonik Geçişlerinin İncelenmesi, 2019 - Continues
- Baldan Işık İ., Yılmazkaya Süngü J., Veli E., Sundu Pamuk H., Project Supported by Other Official Institutions, HAFİF DÖRT KUARKLI YAPILARIN FİZİKSEL ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2019
- SUNDU PAMUK H., YILMAZKAYA SÜNGÜ J., Project Supported by Higher Education Institutions, PC(4380) VE PC(4450) PENTAKUARKLARIN GÜÇLÜ ETKİLEŞMELERİNİN İNCELENMESİ, 2017 - 2018
- Veli E., Yılmazkaya Süngü J., Sundu Pamuk H., Project Supported by Higher Education Institutions, Pc(4380) ve Pc(4450) PENTAKUARKLARIN GÜÇLÜ ETKİLEŞMELERİNİN İNCELENMESİ, 2017 - 2017
- SUNDU PAMUK H., Project Supported by Higher Education Institutions, Zc (3900) >J/?? KÖŞESİNİN IŞIK KONİSİ KRD TOPLAM KURALLARI İLE İNCELENMESİ, 2015 - 2016
- SUNDU PAMUK H., TUBITAK Project, Egzotik ve ağır mezonların etkileşim noktaları özelliklerinin KRD toplam kuralları yöntemiyle incelenmesi, 2015 - 2016
- SUNDU PAMUK H., Project Supported by Higher Education Institutions, HADRONLARIN GÜÇLÜ KUBLAJ SABİTLERİNİN HESAPLANMASI, 2014 - 2015

## Citations

Total Citations (WOS):933

h-index (WOS):17