

## Prof. HAYRİYE SUNDU PAMUK

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### International Researcher IDs

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### Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Fizik (Dr), Turkey 2003 - 2007

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Fizik (YI) (Tezli), Turkey 1999 - 2003

Undergraduate, Balikesir University, Necatibey Faculty Of Education, Department Of Mathematics And Science Teaching, Turkey 1994 - 1998

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

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

### Academic Titles / Tasks

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

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

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

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2000 - 2007

### Academic and Administrative Experience

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, Postgraduate, B.Barsbay(Student), 2017

SUNDU PAMUK H., AKSİYAL-VEKTÖR MEZONLARIN KÜTLE VE LEPTONİK BOZUNUM SABİTLERİNİN HESAPLANMASI VE KÖŞELERİNİN ANALİZİ, Postgraduate, S.Şahin(Student), 2011

## Published journal articles indexed by SCI, SSCI, and AHCI

### I. Hadronic molecules $\eta c\bar{c}$ and $\chi c\bar{c}0\chi c0$

Agaev S. S., Azizi K., Barsbay B., Sundu H.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.138, no.10, 2023 (SCI-Expanded)

### II. Strange partners of the doubly charmed tetraquark $Tcc+$

Agaev S., Azizi K., Sundu H.

European Physical Journal Plus, vol.138, no.7, 2023 (SCI-Expanded)

### III. Near-threshold structures in the $Ds+ Ds-$ mass distribution of the decay $B+ \rightarrow Ds+ Ds- K+$

Agaev S., Azizi K., Sundu H.

Physical Review D, vol.107, no.9, 2023 (SCI-Expanded)

### IV. On the structures of new scalar resonances $Tacs0 (2900)++$ and $Tacs0 (2900)0$

Agaev S., Azizi K., Sundu H.

Journal of Physics G: Nuclear and Particle Physics, vol.50, no.5, 2023 (SCI-Expanded)

### V. Modeling the resonance $Tcs0a (2900)++$ as a hadronic molecule $D*+K*+$

Agaev S., Azizi K., Sundu H.

Physical Review D, vol.107, no.9, 2023 (SCI-Expanded)

### VI. Resonance X (3960) as a hidden charm-strange scalar tetraquark

Agaev S., Azizi K., Sundu H.

Physical Review D, vol.107, no.5, 2023 (SCI-Expanded)

### VII. Axial-vector and pseudoscalar tetraquarks $[ud] [c^- s^-]$

Sundu H., Agaev S., Azizi K.

European Physical Journal C, vol.83, no.3, 2023 (SCI-Expanded)

### VIII. Investigation of a candidate spin- 12 hidden-charm triple strange pentaquark state $Pcsss$

Azizi K., Sarac Y., Sundu H.

Physical Review D, vol.107, no.1, 2023 (SCI-Expanded)

### IX. Heavy-light hybrid mesons with different spin-parities

Barsbay B., Azizi K., Sundu H.

European Physical Journal C, vol.82, no.12, 2022 (SCI-Expanded)

### X. Interpretation of the $\Lambda c(2910)(+)$ baryon newly seen by Belle Collaboration and its possible bottom partner

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

EUROPEAN PHYSICAL JOURNAL C, vol.82, no.10, 2022 (SCI-Expanded)

### XI. Interpretation of the $\Lambda c(2910) +$ baryon newly seen by Belle Collaboration and its possible bottom partner

Azizi K., Sarac Y., Sundu H.

European Physical Journal C, vol.82, no.10, 2022 (SCI-Expanded)

### XII. Is the resonance $X-0 (2900)$ a ground-state or radially excited scalar tetraquark $[ud] [(c)over-bar(s)over-bar]$ ?

Agaev S. S., Azizi K., Sundu H.

- PHYSICAL REVIEW D, vol.106, no.1, 2022 (SCI-Expanded)
- XIII. **Resonance X (4630)**  
Agaev S. S., Azizi K., Sundu H.  
PHYSICAL REVIEW D, vol.106, no.1, 2022 (SCI-Expanded)
- XIV. **Investigation of hidden-charm double strange pentaquark candidate P-css via its mass and strong decays**  
Azizi K., Sarac Y., Sundu H.  
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.6, 2022 (SCI-Expanded)
- XV. **Hadronic molecule model for the doubly charmed state T-cc(+)**  
Agaev S. S., Azizi K., Sundu H.  
JOURNAL OF HIGH ENERGY PHYSICS, vol.2022, no.6, 2022 (SCI-Expanded)
- XVI. **Newly observed exotic doubly charmed meson T-cc(+)**  
Agaev S. S., Azizi K., Sundu H.  
NUCLEAR PHYSICS B, vol.975, 2022 (SCI-Expanded)
- XVII. **Doubly charged vector tetraquark Z(++) (V) = [cu][sd]**  
Agaev S. S., Azizi K., Sundu H.  
PHYSICS LETTERS B, vol.820, 2021 (SCI-Expanded)
- XVIII. **New scalar resonance X-0(2900) as a (D)over-bar\*K\* molecule: mass and width**  
Agaev S. S., Azizi K., Sundu H.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.48, no.8, 2021 (SCI-Expanded)
- XIX. **Vector resonance X-1(2900) and its structure**  
Agaev S. S., Azizi K., Sundu H.  
NUCLEAR PHYSICS A, vol.1011, 2021 (SCI-Expanded)
- XX. **Newly discovered Xi(0)(c) resonances and their parameters**  
Agaev S. S., Azizi K., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.57, no.6, 2021 (SCI-Expanded)
- XXI. **Properties of the P-c(4312) pentaquark and its bottom partner**  
Azizi K., Sarac Y., Sundu H.  
CHINESE PHYSICS C, vol.45, no.5, 2021 (SCI-Expanded)
- XXII. **Investigation of P-cs(4459)(0) pentaquark via its strong decay to Lambda J/Psi**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.103, no.9, 2021 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **Semileptonic and nonleptonic decays of the axial-vector tetraquark T-bb;(u)over-bar(d)over-bar(-)**  
Agaev S. S., Azizi K., Barsbay B., Sundu H.  
EUROPEAN PHYSICAL JOURNAL A, vol.57, no.3, 2021 (SCI-Expanded)
- XXV. **A family of double-beauty tetraquarks: Axial-vector state T-bb;(us)over-bar(-)**  
Agaev S. S., Azizi K., Barsbay B., Sundu H.  
CHINESE PHYSICS C, vol.45, no.1, 2021 (SCI-Expanded)
- XXVI. **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, no.9, 2020 (SCI-Expanded)
- XXVII. **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, no.9, 2020 (SCI-Expanded)
- XXVIII. **New Lambda(b)(6072)(0) state as a 2S bottom baryon**  
Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.102, no.3, 2020 (SCI-Expanded)
- XXIX. **Stable scalar tetraquark Tbb;(u)over-bar(d)over-bar(-)**

- Agaev S. S., Azizi K., Barsbay B., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL A, vol.56, no.7, 2020 (SCI-Expanded)
- XXX. **Heavy exotic scalar meson  $T(bb\bar{b};u\bar{u})$**   
 Agaev S. S., Azizi K., Barsbay B., Sundu H.  
 PHYSICAL REVIEW D, vol.101, no.9, 2020 (SCI-Expanded)
- XXXI. **Lambda(b)(6146)(0) state newly observed by LHCb**  
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.101, no.7, 2020 (SCI-Expanded)
- XXXII. **Nature of the vector resonance Y(2175)**  
 Agaev S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.101, no.7, 2020 (SCI-Expanded)
- XXXIII. **Double-heavy axial-vector tetraquark  $T-bc;u\bar{d}d\bar{u}(0)$**   
 Agaev S. S., Azizi K., Sundu H.  
 NUCLEAR PHYSICS B, vol.951, 2020 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **Light scalar K-0\* (700) meson in vacuum and a hot medium**  
 Azizi K., Barsbay B., Sundu H.  
 PHYSICAL REVIEW D, vol.100, no.9, 2019 (SCI-Expanded)
- XXXVI. **Decay modes of the scalar exotic meson  $Tbs;u\bar{d}d\bar{s}(-)$**   
 Agaev S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.100, no.9, 2019 (SCI-Expanded)
- XXXVII. **Light axial-vector and vector resonances X(2100) and X(2239)**  
 Azizi K., Agaev S. S., Sundu H.  
 NUCLEAR PHYSICS B, vol.948, 2019 (SCI-Expanded)
- XXXVIII. **Semileptonic decays of the scalar tetraquark  $Zbc;ud(0)$**   
 Sundu H., Agaev S. S., Azizi K.  
 EUROPEAN PHYSICAL JOURNAL C, vol.79, no.9, 2019 (SCI-Expanded)
- XXXIX. **Lepton flavor universality violation in semileptonic tree level weak transitions**  
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.99, no.11, 2019 (SCI-Expanded)
- XL. **Strong decays of double-charmed pseudoscalar and scalar  $cc(u\bar{d}d\bar{u})$  tetraquarks**  
 Agaev S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.99, no.11, 2019 (SCI-Expanded)
- XLI. **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, no.9, 2019 (SCI-Expanded)
- XLII. **New charged resonance  $Z(c)(-)(4100)$ : the spectroscopic parameters and width**  
 Sundu H., Agaev S. S., Azizi K.  
 EUROPEAN PHYSICAL JOURNAL C, vol.79, no.3, 2019 (SCI-Expanded)
- XLIII. **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 (SCI-Expanded)
- XLIV. **Weak decays of the axial-vector tetraquark  $Tbb;u\bar{d}d\bar{u}(-)$**   
 AGAEV S. S., Azizi K., BARSBAY B., Sundu H.  
 PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)
- XLV. **The doubly charmed pseudoscalar tetraquarks  $T-cc;(s\bar{s})++$  and  $T-cc;(d\bar{d})+$**   
 AGAEV S. S., Azizi K., BARSBAY B., Sundu H.  
 NUCLEAR PHYSICS B, vol.939, pp.130-144, 2019 (SCI-Expanded)

- XLVI. Structure of the  $\Xi(b)(6227)(-)$  resonance**  
 Aliev T. M., Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.98, no.9, 2018 (SCI-Expanded)
- XLVII. Nature of the Omega (2012) through its strong decays**  
 Aliev T. M., Azizi K., Sarac Y., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.78, no.11, 2018 (SCI-Expanded)
- XLVIII. On the nature  $\Xi(c)(2930)$**   
 Aliev T. M., AZIZI K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL A, vol.54, no.9, 2018 (SCI-Expanded)
- XLIX. Resonance Y (4660) as a vector tetraquark and its strong decay channels**  
 Sundu H., AGAEV S. S., Azizi K.  
 PHYSICAL REVIEW D, vol.98, no.5, 2018 (SCI-Expanded)
- L. 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 (SCI-Expanded)
- LI. Possible molecular pentaquark states with different spin and quark configurations**  
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.98, no.5, 2018 (SCI-Expanded)
- LII. Interpretation of the newly discovered Omega(2012)**  
 Aliev T. M., Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.98, no.1, 2018 (SCI-Expanded)
- LIII. Probing an axial-vector tetraquark  $Z(s)$  via its semileptonic decay  $Z(s) \rightarrow X(4274)(I)\bar{\nu}(I)$**   
 Sundu H., BARSBAY B., AGAEV S. S., Azizi K.  
 EUROPEAN PHYSICAL JOURNAL A, vol.54, no.7, 2018 (SCI-Expanded)
- LIV. 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 (SCI-Expanded)
- LV. 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 (SCI-Expanded)
- LVI. Analysis of the structure of  $\Xi(1690)$  through its decays**  
 Aliev T. M., AZIZI K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.78, no.5, 2018 (SCI-Expanded)
- LVII. Thermal properties of the exotic  $X(3872)$  state via QCD sum rule**  
 Veliev E., GÜNAZDIN S., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, no.4, 2018 (SCI-Expanded)
- LVIII. Mass and residue of Lambda(1405) as hybrid and excited ordinary baryon**  
 Azizi K., BARSBAY B., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, no.3, 2018 (SCI-Expanded)
- LIX. New  $a(1)(1420)$  state: Structure, mass, and width**  
 Sundu H., AGAEV S. S., Azizi K.  
 PHYSICAL REVIEW D, vol.97, no.5, 2018 (SCI-Expanded)
- LX. Testing the doubly charged charm-strange tetraquarks**  
 AGAEV S. S., Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.78, no.2, 2018 (SCI-Expanded)
- LXI. Spectroscopic parameters and decays of the resonance  $Z(b)(10610)$**   
 AGAEV S. S., Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.12, 2017 (SCI-Expanded)
- LXII. Hidden bottom pentaquark states with spin  $3/2$  and  $5/2$**   
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.96, no.9, 2017 (SCI-Expanded)

- LXIII. **Decay widths of the excited Omega(b) baryons**  
 AGAEV S. S., AZIZI K., Sundu H.  
 PHYSICAL REVIEW D, vol.96, no.9, 2017 (SCI-Expanded)
- LXIV. **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, no.3, 2017 (SCI-Expanded)
- LXV. **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, no.6, 2017 (SCI-Expanded)
- LXVI. **Exploring the resonances X(4140) and X(4274) through their decay channels**  
 AGAEV S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.95, no.11, 2017 (SCI-Expanded)
- LXVII. **On the nature of the newly discovered Omega states**  
 AGAEV S. S., Azizi K., Sundu H.  
 EPL, vol.118, no.6, 2017 (SCI-Expanded)
- LXVIII. **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, no.9, 2017 (SCI-Expanded)
- LXIX. **Open charm-bottom axial-vector tetraquarks and their properties**  
 AGAEV S. S., Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.5, 2017 (SCI-Expanded)
- LXX. **Radial excitations of the decuplet baryons**  
 Aliev T. M., Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.4, 2017 (SCI-Expanded)
- LXXI. **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 (SCI-Expanded)
- LXXII. **Open charm-bottom scalar tetraquarks and their strong decays**  
 AGAEV S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.95, no.3, 2017 (SCI-Expanded)
- LXXIII. **Resonance X(5568) as an exotic axial-vector state**  
 AGAEV S. S., Azizi K., BARSBAY B., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL A, vol.53, no.1, 2017 (SCI-Expanded)
- LXXIV. **Mass and magnetic dipole moment of negative-parity heavy baryons with spin-3/2**  
 Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL PLUS, vol.132, no.1, 2017 (SCI-Expanded)
- LXXV. **Impact of finite density on spectroscopic parameters of decuplet baryons**  
 Azizi K., Er N., Sundu H.  
 PHYSICAL REVIEW D, vol.94, no.11, 2016 (SCI-Expanded)
- LXXVI. **Exploring X(5568) as a meson molecule**  
 AGAEV S. S., Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL PLUS, vol.131, no.10, 2016 (SCI-Expanded)
- LXXVII. **Application of the QCD light cone sum rule to tetraquarks: The strong vertices XbXb rho and XcXc rho**  
 Agaev S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.93, no.11, 2016 (SCI-Expanded)
- LXXVIII. **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, no.11, 2016 (SCI-Expanded)
- LXXIX. **Charmed partner of the exotic X(5568) state and its properties**

- Agaev S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.93, no.9, 2016 (SCI-Expanded)
- LXXX. **On the strong coupling  $N(^*)N(^*)\pi$**   
 Azizi K., Sarac Y., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL A, vol.52, no.4, pp.1-9, 2016 (SCI-Expanded)
- LXXXI. **Mass and decay constant of the newly observed exotic  $X(5568)$  state**  
 Agaev S. S., Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.93, no.7, 2016 (SCI-Expanded)
- LXXXII. **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, no.7, 2016 (SCI-Expanded)
- LXXXIII.  **$B(c)\bar{B}(c)J/\psi$  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, no.2, 2016 (SCI-Expanded)
- LXXXIV. **Transition Form Factors of  $\chi(b2)(1P) \rightarrow B-c(l)\bar{over-bar}v$  in QCD**  
 Azizi K., Sundu H., Sungu J., YINELEK N.  
 ADVANCES IN HIGH ENERGY PHYSICS, 2016 (SCI-Expanded)
- LXXXV. **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, no.11, 2015 (SCI-Expanded)
- LXXXVI. **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 (SCI-Expanded)
- LXXXVII. **Positive and negative parity hyperons in nuclear medium**  
 Azizi K., Er N., Sundu H.  
 PHYSICAL REVIEW D, vol.92, no.5, 2015 (SCI-Expanded)
- LXXXVIII. **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, no.1, 2015 (SCI-Expanded)
- LXXXIX. **Radiative transition of negative to positive parity nucleon**  
 Azizi K., Sundu H.  
 PHYSICAL REVIEW D, vol.91, no.9, 2015 (SCI-Expanded)
- XC. **Semileptonic  $B_s \rightarrow Ds2^*(2573) l(\nu)\bar{over-bar}l$  transition in QCD**  
 Azizi K., Sundu H., ŞAHİN S.  
 EUROPEAN PHYSICAL JOURNAL C, vol.75, no.5, 2015 (SCI-Expanded)
- XCI. **Semileptonic  $B \rightarrow (D)\bar{over-bar}$  transition in a nuclear medium**  
 Azizi K., Er N., Sundu H.  
 PHYSICAL REVIEW D, vol.91, no.3, 2015 (SCI-Expanded)
- XCII. **Radiative  $\Omega(Q)^*$   $\rightarrow \Omega(Q)\gamma$  and  $\Xi(Q)^* \rightarrow \Xi(Q)\gamma$  transitions in light cone QCD**  
 Aliev T. M., Azizi K., Sundu H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.75, no.1, 2015 (SCI-Expanded)
- XCIII. **Thermal Properties of Light Tensor Mesons via QCD Sum Rules**  
 Azizi K., TÜRKAN A., Veliev E., Sundu H.  
 ADVANCES IN HIGH ENERGY PHYSICS, 2015 (SCI-Expanded)
- XCIV. **Strong Lambda  $bNB$  and Lambda  $cND$  vertices**  
 Azizi K., Sarac Y., Sundu H.  
 PHYSICAL REVIEW D, vol.90, no.11, 2014 (SCI-Expanded)
- XCV. **Semileptonic Transition of Tensor  $c2\ 1P$  to  $DsDs$  Meson**  
 YILMAZKAYA SÜNGÜ J., SUNDU PAMUK H., AZIZI K.  
 Advances In High Energy Physics, 2014 (SCI-Expanded)
- XCVI. **Analysis of the strong  $D-2^*(2460)(0) \rightarrow D + \pi(-)$  and  $D-s2^*(2573)(+) \rightarrow D + K-0$  transitions via**

## **QCD sum rules**

Azizi K., Sarac Y., Sundu H.

EUROPEAN PHYSICAL JOURNAL C, vol.74, no.10, 2014 (SCI-Expanded)

### **XCVII. More about the B B and D D mesons in nuclear matter**

AZİZİ K., ER N., SUNDU PAMUK H.

European Physical Journal C, vol.74, 2014 (SCI-Expanded)

### **XCVIII. Thermal properties of D-2\* (2460) and D-s2\*(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, no.3, 2014 (SCI-Expanded)

### **XCIX. 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 (SCI-Expanded)

#### **C. Semileptonic Transition of Tensor chi(c2)(1P) to D-s Meson**

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