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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 2003 - 2007

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1999 - 2003

Lisans, Balıkesir Üniversitesi, Necatibey Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Türkiye 1994 - 1998

Yabancı Diller

İngilizce, B2 Orta Üstü

Araştırma Alanları

Fizik, Temel Parçacıklar ve Alanlar , Özel parçacıkların özellikleri, Özel reaksiyonlar ve fenomenoloji, Özel teoriler ve etkileşme modelleri, parçacık sistematiği, Temel Bilimler

Akademik Unvanlar / Görevler

Doç.Dr., Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2013 - Devam Ediyor

Yrd.Doç.Dr., Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2008 - 2013

Araştırma Görevlisi, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2007 - 2007

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2000 - 2007

Mesleki Deneyim

Bölüm Başkan Yardımcısı, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2013 - Devam Ediyor

Verdiği Dersler

İleri Kuantum Mekaniği, Doktora, 2017 - 2018

Yönetilen Tezler

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Determination of the possible quantum numbers for the newly observed $\Xi(b)(6227)(0)$ state**
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- 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.
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- 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, cilt.45, 2021 (SCI İndekslerine Giren Dergi)
- 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, cilt.47, 2020 (SCI İndekslerine Giren Dergi)
- V. **Nucleon resonances with spin 3/2 and isospin 1/2**
Azizi K., Sarac Y., Sundu H.
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- VI. **New $\Lambda(b)(6072)(0)$ state as a 2S bottom baryon**
Azizi K., Sarac Y., Sundu H.
PHYSICAL REVIEW D, cilt.102, 2020 (SCI İndekslerine Giren Dergi)
- VII. **Stable scalar tetraquark $T_{bb};(u)\overline{bar}(d)\overline{bar}(-)$**
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- VIII. **Heavy exotic scalar meson $T(bb)\overline{bar};(u)\overline{bar}(s)\overline{bar}$**
Agaev S. S. , Azizi K., Barsbay B., Sundu H.
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- IX. **$\Lambda(b)(6146)(0)$ state newly observed by LHCb**
Azizi K., Sarac Y., Sundu H.
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- X. **Nature of the vector resonance $Y(2175)$**
Agaev S. S. , Azizi K., Sundu H.
PHYSICAL REVIEW D, cilt.101, 2020 (SCI İndekslerine Giren Dergi)
- 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, cilt.951, 2020 (SCI İndekslerine Giren Dergi)
- XII. **Thermal behaviors of exotic $Z(c)(3900)$ state in tetraquark approach**
Isik I. B. , Sundu H., Veliev E.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.135, 2020 (SCI İndekslerine Giren Dergi)
- XIII. **Light scalar $K-0^*(700)$ meson in vacuum and a hot medium**
Azizi K., Barsbay B., Sundu H.
PHYSICAL REVIEW D, cilt.100, 2019 (SCI İndekslerine Giren Dergi)
- XIV. **Decay modes of the scalar exotic meson $T_{bs};(u)\overline{bar}(d)\overline{bar}(-)$**
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- XV. **Light axial-vector and vector resonances $X(2100)$ and $X(2239)$**

- Azizi K., Agaev S. S. , Sundu H.
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- XVI. **Semileptonic decays of the scalar tetraquark $Z_{bc};ud(0)$**
Sundu H., Agaev S. S. , Azizi K.
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- XVII. **Lepton flavor universality violation in semileptonic tree level weak transitions**
Azizi K., Sarac Y., Sundu H.
PHYSICAL REVIEW D, cilt.99, 2019 (SCI İndekslerine Giren Dergi)
- XVIII. **Strong decays of double-charmed pseudoscalar and scalar $cc(u)\overline{(d)}\overline{(d)}$ tetraquarks**
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- 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, cilt.99, 2019 (SCI İndekslerine Giren Dergi)
- XX. **New charged resonance $Z(c)(-)(4100)$: the spectroscopic parameters and width**
Sundu H., Agaev S. S. , Azizi K.
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- 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, cilt.789, ss.405-412, 2019 (SCI İndekslerine Giren Dergi)
- XXII. **Weak decays of the axial-vector tetraquark $T_{bb};(u)\overline{(d)}\overline{(d)}(-)$**
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- XXIII. **The doubly charmed pseudoscalar tetraquarks $T-cc;(s)\overline{(s)}\overline{(s)}++$ and $T-cc;(d)\overline{(d)}\overline{(d)}++$**
AGAEV S. S. , Azizi K., BARSBAY B., Sundu H.
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- XXIV. **Structure of the $\Xi(b)(6227)(-)$ resonance**
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- XXV. **Nature of the $\Omega(2012)$ through its strong decays**
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- XXVI. **On the nature $\Xi(c)(2930)$**
Aliev T. M. , AZIZI K., Sundu H.
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- XXVII. **Resonance $Y(4660)$ as a vector tetraquark and its strong decay channels**
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- 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, cilt.784, ss.266-270, 2018 (SCI İndekslerine Giren Dergi)
- XXIX. **Possible molecular pentaquark states with different spin and quark configurations**
Azizi K., Sarac Y., Sundu H.
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- XXX. **Interpretation of the newly discovered $\Omega(2012)$**
Aliev T. M. , Azizi K., Sarac Y., Sundu H.
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- 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, cilt.54, 2018 (SCI İndekslerine Giren Dergi)

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

- EUROPEAN PHYSICAL JOURNAL C, cilt.77, 2017 (SCI İndekslerine Giren Dergi)
- XLIX. **Scalar and vector self-energies of heavy baryons in nuclear medium**
Azizi K., Er N., Sundu H.
NUCLEAR PHYSICS A, cilt.960, ss.147-164, 2017 (SCI İndekslerine Giren Dergi)
- L. **Open charm-bottom scalar tetraquarks and their strong decays**
AGAEV S. S. , Azizi K., Sundu H.
PHYSICAL REVIEW D, cilt.95, 2017 (SCI İndekslerine Giren Dergi)
- LI. **Resonance X(5568) as an exotic axial-vector state**
AGAEV S. S. , Azizi K., BARSBAY B., Sundu H.
EUROPEAN PHYSICAL JOURNAL A, cilt.53, 2017 (SCI İndekslerine Giren Dergi)
- LII. **Mass and magnetic dipole moment of negative-parity heavy baryons with spin-3/2**
Azizi K., Sundu H.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.132, 2017 (SCI İndekslerine Giren Dergi)
- LIII. **Impact of finite density on spectroscopic parameters of decuplet baryons**
Azizi K., Er N., Sundu H.
PHYSICAL REVIEW D, cilt.94, 2016 (SCI İndekslerine Giren Dergi)
- LIV. **Exploring X(5568) as a meson molecule**
AGAEV S. S. , Azizi K., Sundu H.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.131, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.93, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.93, 2016 (SCI İndekslerine Giren Dergi)
- LVII. **Charmed partner of the exotic X(5568) state and its properties**
Agaev S. S. , Azizi K., Sundu H.
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- LVIII. **On the strong coupling $N(*)N(*)\pi$**
Azizi K., Sarac Y., Sundu H.
EUROPEAN PHYSICAL JOURNAL A, cilt.52, ss.1-9, 2016 (SCI İndekslerine Giren Dergi)
- LIX. **Mass and decay constant of the newly observed exotic X(5568) state**
Agaev S. S. , Azizi K., Sundu H.
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- LX. **Strong $Z(c)(+)(3900) \rightarrow J/\psi \pi(+)$; $\eta_c \rho(+)$ decays in QCD**
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- 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.
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- LXII. **Transition Form Factors of $\chi(b2)(1P) \rightarrow B-c(l)\overline{bar}v$ in QCD**
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- LXIII. **Strong $D-s^*D-s \eta(0'0)$ and $B-s^*B-s \eta(0'0)$ vertices from QCD light-cone sum rules**
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- LXV. **Positive and negative parity hyperons in nuclear medium**

- Azizi K., Er N., Sundu H.
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- LXVI. **Strong couplings of negative and positive parity nucleons to the heavy baryons and mesons**
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- LXVII. **Radiative transition of negative to positive parity nucleon**
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- LXIX. **Semileptonic $B \rightarrow (D)$ over-bar transition in a nuclear medium**
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- LXX. **Radiative $\Omega(Q)^* \rightarrow \Omega(Q)\gamma$ and $\Xi(Q)^* \rightarrow \Xi(Q)\gamma$ transitions in light cone QCD**
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- LXXI. **Thermal Properties of Light Tensor Mesons via QCD Sum Rules**
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- LXXII. **Strong Λ_{bN} and Λ_{cN} vertices**
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- 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 (SCI İndekslerine Giren Dergi)
- LXXIV. **Analysis of the strong $D-2^*(2460)(0) \rightarrow D+\pi(-)$ and $D-s2^*(2573)(+) \rightarrow D+K-0$ transitions via QCD sum rules**
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- LXXV. **More about the $B B$ and $D D$ mesons in nuclear matter**
AZİZİ K., ER N., SUNDU PAMUK H.
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- LXXVI. **Thermal properties of $D-2^*(2460)$ and $D-s2^*(2573)$ tensor mesons using QCD sum rules**
Azizi K., Sundu H., TURKAN A., Veliev E.
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- LXXVII. **Semileptonic Transition of Tensor $\chi(c_2)(1P)$ to $D-s$ Meson**
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- LXXVIII. **THERMAL PROPERTIES OF THE HEAVY AXIAL VECTOR QUARKONIA**
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- LXXIX. **Investigation of the $B-c \rightarrow \chi(c_2)1(\nu)$ over bar(-) transition via QCD sum rules**
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- LXXX. **Investigation of the $D(s)^* \rightarrow D-s \eta(')$ and $B(s)^* \rightarrow B-s \eta(')$ vertices via QCD sum rules**
YAZICI E., Veliev E., Azizi K., Sundu H.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.128, 2013 (SCI İndekslerine Giren Dergi)
- LXXXI. **Investigation of the semileptonic transition of the B into the orbitally excited charmed tensor meson**
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- LXXXII. **Properties of Ds2 2573 charmed strange tensor meson**
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- LXXXIII. **Semileptonic transition of P-wave bottomonium $\chi(b_0)(1P)$ to B-c meson**
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- LXXXIV. **Mass and meson-current coupling constant of the tensor D-2*(2460)**
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- LXXXV. **Semileptonic transition of Sigma(b) to Sigma in light cone QCD sum rules**
Azizi K., BAYAR M., ÖZPİNECİ A., Sarac Y., Sundu H.
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- LXXXVI. **Investigation of heavy-heavy pseudoscalar mesons in thermal QCD sum rules**
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- LXXXVII. **Light cone QCD sum rules study of the semileptonic heavy Xi(Q) and Xi(Q)' transitions to Xi and Sigma baryons**
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- LXXXVIII. **Thermal QCD sum rules study of vector charmonium and bottomonium states**
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