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### Research Areas

Physics, Basic Particles and Areas, General Theory of Particles and Fields, Special reactions and phenomenology, Special theories and interaction models, particle systematics, Natural Sciences

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 1992 - Continues

### Supervised Theses

ALIYEV T., Properties of charmoniumlike states, Postgraduate, H.ÖZŞAHİN(Student), 2015

ALIYEV T., CP-violating effects in b decays beyond the standard model, Doctorate, V.Bashiry(Student), 2005

ALIYEV T., Rare z decays and noncommutative theories, Doctorate, C.Yüce(Student), 2004

ALIYEV T., Rare B-meson decays in the non-standard perspective, Doctorate, G.Turan(Student), 1994

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

- I. **Mixing angle between  $P_{13}$  and  $P_{11}$  states in heavy axial vector mesons within the QCD sum rules framework**  
ALIYEV T., BİLMİŞ S., SAVCI M.  
Physical Review D, vol.111, no.1, 2025 (SCI-Expanded)
- II. **Determination of the multipole moments of the  $J^P=3^-$  mesons via QCD sum rules**  
ALIYEV T., BİLMİŞ S., SAVCI M.  
Physical Review D, vol.110, no.11, 2024 (SCI-Expanded)
- III. **Analysis of strong decays of  $SU(3)$  partners of  $\Omega(2012)$  baryon**  
Aliyev T., BİLMİŞ S., SAVCI M.  
CHINESE PHYSICS C, vol.48, no.8, 2024 (SCI-Expanded)
- IV. **QCD sum rule study of  $J^P=1^{\pm}$  exotic states with two heavy quarks in the molecular picture**  
Aliyev T., Bilmis S., Savci M.

CHINESE PHYSICS C, vol.48, no.6, 2024 (SCI-Expanded)

- V. **Reanalysis of rare radiative  $\Xi_b^- \rightarrow \Xi^- \gamma$  decay in QCD**  
ALIYEV T., ÖZPİNECİ A., Sarac Y.  
Physical Review D, vol.109, no.5, 2024 (SCI-Expanded)
- VI. **The study of weak decays induced by [Formula presented] transition in light-cone sum rules**  
ALIYEV T., BİLMİŞ S., SAVCI M.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.847, 2023 (SCI-Expanded)
- VII. **Radiative decays of the spin- 3/2 to spin- 1/2 doubly heavy baryons in QCD**  
Aliyev T., Aşkan E., Özpıneci A.  
Physical Review D, vol.108, no.5, 2023 (SCI-Expanded)
- VIII. **Analysis of the light  $J^P=3^-$  mesons in QCD sum rules**  
Aliyev T., Bilmis S., Savci M.  
Physical Review D, vol.108, no.3, 2023 (SCI-Expanded)
- IX. **Constraining nonminimal dark sector scenarios with the COHERENT neutrino scattering data**  
ELPE A., Akyumuk E., ALIYEV T., SELBUZ L., TURAN İ.  
Physical Review D, vol.107, no.7, 2023 (SCI-Expanded)
- X. **Looking for heavy axial tensor mesons via their strong decays in light cone QCD**  
Aliyev T., Bilmis S., Çiftci R. A., Savci M.  
Physical Review D, vol.107, no.5, 2023 (SCI-Expanded)
- XI. **Charmed baryon  $\omega_c^0 \rightarrow \omega^- l^+ \nu_l$  and  $\omega_c^0 \rightarrow \omega^- \pi^+ (\rho^+)$  decays in light cone sum rules**  
Aliyev T., Savci M., Bilmis S.  
Physical Review D, vol.106, no.7, 2022 (SCI-Expanded)
- XII. **Weak  $\Xi_c(QQ) \rightarrow \Sigma_c(Q)l^+(\nu)l^-(\bar{\nu})$  decays induced by FCNC in QCD**  
ALIYEV T., Savci M., BİLMİŞ S.  
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.10, 2022 (SCI-Expanded)
- XIII. **Analysis of FCNC  $\Xi_c Q \rightarrow \Lambda_c l^+ l^-$  decay in light-cone sum rules**  
ALIYEV T., SAVCI M., BİLMİŞ S.  
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- XIV. **Determination of the spectroscopic parameters of beauty-partners of  $T_{cc}$  from QCD**  
ALIYEV T., SAVCI M., BİLMİŞ S.  
Physical Review D, vol.105, no.7, 2022 (SCI-Expanded)
- XV. **Light-cone sum rules for radial excitation of decuplet to octet baryons electromagnetic transition form factors**  
ALIYEV T., BİLMİŞ S., Savci M.  
MODERN PHYSICS LETTERS A, vol.36, no.34, 2021 (SCI-Expanded)
- XVI. **Strong coupling constants of charmed and bottom mesons with light vector mesons in QCD sum rules**  
ALIYEV T., Şimşek K.  
Physical Review D, vol.104, no.7, 2021 (SCI-Expanded)
- XVII. **Semileptonic baryon decays in the light cone QCD sum rules**  
ALIYEV T., BİLMİŞ S., SAVCI M.  
Physical Review D, vol.104, no.5, 2021 (SCI-Expanded)
- XVIII. **Strong  $B_{QQ}^* B_{QQ}^{\prime} V$  vertices and the radiative decays of  $B_{QQ}^* \rightarrow B_{QQ} \gamma$  in the light-cone sum rules**  
Aliyev T., Barakat T., Şimşek K.  
European Physical Journal A, vol.57, no.5, 2021 (SCI-Expanded)
- XIX. **Strong vertices of doubly heavy spin- 3/2 -spin- 1/2 baryons with light mesons in light-cone QCD sum rules**  
ALIYEV T., Şimşek K.  
Physical Review D, vol.103, no.5, 2021 (SCI-Expanded)
- XX. **Gravitational formfactors of the rho, pi, and K mesons in the light-cone QCD sum rules**  
Aliyev T., Barakat T., Simsek K.

- PHYSICAL REVIEW D, vol.103, no.5, 2021 (SCI-Expanded)
- XXI. **Determination of the strong vertices of doubly heavy baryons with pseudoscalar mesons in QCD**  
Alrebdi H., Aliev T., Simsek K.  
PHYSICAL REVIEW D, vol.102, no.7, 2020 (SCI-Expanded)
- XXII. **Strong coupling constants of doubly heavy baryons with vector mesons in QCD**  
Aliev T., Simsek K.  
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.10, 2020 (SCI-Expanded)
- XXIII.  **$\gamma^*N \rightarrow \Delta^+ (1600)$  transition form factors in light-cone sum rules**  
Aliev T., Barakat T., Bilmis S., Savci M.  
Physical Review D, vol.101, no.11, 2020 (SCI-Expanded)
- XXIV. **Multipole moments of heavy vector and axial-vector mesons in QCD**  
Aliev T., Bilmis S., Savci M.  
Physical Review D, vol.101, no.5, 2020 (SCI-Expanded)
- XXV. **Are the new excited  $\omega c$  baryons negative parity states?**  
Aliev T., Bilmis S., Savci M.  
Modern Physics Letters A, vol.35, no.1, 2020 (SCI-Expanded)
- XXVI.  **$B \rightarrow T$  transition form factors in light-cone sum rules**  
Aliev T., Dag H., Kokulu A., Özpıneci A.  
PHYSICAL REVIEW D, vol.100, no.9, 2019 (SCI-Expanded)
- XXVII. **Properties of excited B-c states in QCD**  
Aliev T., Barakat T., BİLMİŞ S.  
NUCLEAR PHYSICS B, vol.947, 2019 (SCI-Expanded)
- XXVIII.  **$N^*(1535) \rightarrow N$  transition form-factors due to the axial current**  
Aliev T., Barakat T., Simsek K.  
PHYSICAL REVIEW D, vol.100, no.5, 2019 (SCI-Expanded)
- XXIX. **Radiative decays of the p-wave charmed heavy baryons**  
Aliev T., Barakat T., Savci M.  
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)
- XXX. **Determination of the quantum numbers of  $\Sigma(b)(6097)(+/-)$  via their strong decays**  
Aliev T., Azizi K., Sarac Y., Sundu H.  
PHYSICAL REVIEW D, vol.99, no.9, 2019 (SCI-Expanded)
- XXXI. **Study of the  $\Lambda(b) \rightarrow N^*1(+)\Lambda(-)$  decay in light cone sum rules**  
Aliev T., Barakat T., Savci M.  
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)
- XXXII. **The mass and residues of radially and orbitally excited doubly heavy baryons in QCD**  
Aliev T., BİLMİŞ S.  
NUCLEAR PHYSICS A, vol.984, pp.99-111, 2019 (SCI-Expanded)
- XXXIII. **Radiative decays of the heavy tensor mesons in light cone QCD sum rules**  
ALIYEV T., SAVCI M.  
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- XXXIV. **Structure of the  $\Xi(b)(6227)(-)$  resonance**  
Aliev T., AZİZİ K., SARAÇ OYMAK Y., SUNDU PAMUK H.  
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- XXXV. **Nature of the  $\Omega(2012)$  through its strong decays**  
Aliev T., AZİZİ K., SARAÇ OYMAK Y., SUNDU PAMUK H.  
EUROPEAN PHYSICAL JOURNAL C, vol.78, no.11, 2018 (SCI-Expanded)
- XXXVI. **On the nature  $\Xi(c) (2930)$**   
Aliev T., AZİZİ K., SUNDU PAMUK H.  
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- XXXVII. **Determination of  $f(0) - a(0)(0)$  mixing angle from QCD sum rules**  
ALIYEV T., BİLMİŞ S.

- EUROPEAN PHYSICAL JOURNAL A, vol.54, no.9, 2018 (SCI-Expanded)
- XXXVIII. **Form factors for the rare  $\Lambda(b)(\Lambda^*(b)) \rightarrow Nl(+)l(-)$  decays in light cone QCD sum rules**  
 Aliyev T., Barakat T., Savcı M.  
 PHYSICAL REVIEW D, vol.98, 2018 (SCI-Expanded)
- XXXIX. **Interpretation of the newly discovered  $\Omega(2012)$**   
 Aliev T., AZİZİ K., SARAÇ OYMAK Y., SUNDU PAMUK H.  
 PHYSICAL REVIEW D, vol.98, no.1, 2018 (SCI-Expanded)
- XL. **Light-cone distribution amplitudes of light  $J(PC)=2(--)$  tensor mesons in QCD**  
 Aliyev T., Bilmış S., Yang K.  
 NUCLEAR PHYSICS B, vol.931, pp.132-145, 2018 (SCI-Expanded)
- XLI. **Analysis of the structure of  $\Xi(1690)$  through its decays**  
 Aliev T., Azizi K., SUNDU PAMUK H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.78, no.5, 2018 (SCI-Expanded)
- XLII. **Magnetic dipole moments of the negative parity  $J(PC)=2(--)$  mesons in QCD**  
 Aliyev T., Barakat T., Savcı M.  
 EUROPEAN PHYSICAL JOURNAL C, vol.78, 2018 (SCI-Expanded)
- XLIII. **Reanalysis of  $\Omega(c) \rightarrow \Xi K^+(c)^-$  Decay in QCD**  
 ALIYEV T., BİLMİŞ S., SAVCI M.  
 ADVANCES IN HIGH ENERGY PHYSICS, vol.2018, 2018 (SCI-Expanded)
- XLIV. **Scalar unparticle signals at the LHC**  
 ALIYEV T., BİLMİŞ S., Solmaz M., TURAN İ.  
 PHYSICAL REVIEW D, vol.95, no.9, 2017 (SCI-Expanded)
- XLV. **Radial excitations of the decuplet baryons**  
 Aliev T., AZİZİ K., SUNDU PAMUK H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.77, no.4, 2017 (SCI-Expanded)
- XLVI. **Strong coupling constant of a negative parity nucleon with a pi meson in light-cone QCD sum rules**  
 ALIYEV T., Barakat T., SAVCI M.  
 PHYSICAL REVIEW C, vol.95, no.3, 2017 (SCI-Expanded)
- XLVII. **Magnetic moment of the X-Q state with  $J(PC)=1(++/-)$  in light cone QCD sumrules**  
 Agamaliev A. K., ALIYEV T., SAVCI M.  
 PHYSICAL REVIEW D, vol.95, no.3, 2017 (SCI-Expanded)
- XLVIII. **Radiative decays of negative parity heavy baryons in the framework of the light cone QCD sum rules**  
 Agamaliev A. K., ALIYEV T., SAVCI M.  
 NUCLEAR PHYSICS A, vol.958, pp.38-47, 2017 (SCI-Expanded)
- XLIX. **Strong Coupling Constants of Negative Parity Heavy Baryons with pi and K Mesons**  
 ALIYEV T., BİLMİŞ S., SAVCI M.  
 ADVANCES IN HIGH ENERGY PHYSICS, vol.2017, 2017 (SCI-Expanded)
- L. **Strong coupling constant of negative parity octet baryons with light pseudoscalar mesons in light cone QCD sum rules**  
 ALIYEV T., SAVCI M.  
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- LI. **Analysis of Radial Excitations of Octet Baryons in QCD Sum Rules**  
 ALIYEV T., BİLMİŞ S.  
 ADVANCES IN HIGH ENERGY PHYSICS, vol.2017, 2017 (SCI-Expanded)
- LII. **Determination of the Sigma-Lambda mixing angle from QCD sum rules**  
 ALIYEV T., Barakat T., SAVCI M.  
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2016, no.8, 2016 (SCI-Expanded)
- LIII. **Magnetic moment for the negative parity  $\Lambda \rightarrow \Sigma(0)$  transition in light cone QCD sum rules**  
 ALIYEV T., SAVCI M.  
 PHYSICS LETTERS B, vol.758, pp.347-354, 2016 (SCI-Expanded)
- LIV. **Strong decay constants of heavy tensor mesons in light cone QCD sum rules**

- Alhendi H. A., ALIYEV T., SAVCI M.  
 JOURNAL OF HIGH ENERGY PHYSICS, vol.2016, no.4, 2016 (SCI-Expanded)
- LIV. **Analysis of the radiative decays  $\Sigma(Q) \rightarrow \Lambda(Q)\gamma$  and  $\Xi'(Q) \rightarrow \Xi(Q)\gamma$  in light cone sum rules**  
 ALIYEV T., Barakat T., SAVCI M.  
 PHYSICAL REVIEW D, vol.93, no.5, 2016 (SCI-Expanded)
- LVI. **Magnetic dipole moments of the heavy tensor mesons in QCD**  
 ALIYEV T., Barakat T., SAVCI M.  
 EUROPEAN PHYSICAL JOURNAL C, vol.75, no.11, 2015 (SCI-Expanded)
- LVII. **Constraints on dark photon from neutrino-electron scattering experiments**  
 BİLMİŞ S., TURAN İ., Aliev T., Deniz M., Singh L., Wong H. T.  
 PHYSICAL REVIEW D, vol.92, no.3, 2015 (SCI-Expanded)
- LVIII. **Diagonal and transition magnetic moments of negative parity heavy baryons in QCD sum rules**  
 ALIYEV T., AZİZİ K., Barakat T., SAVCI M.  
 PHYSICAL REVIEW D, vol.92, no.3, 2015 (SCI-Expanded)
- LIX. **Magnetic moments of heavy  $J(P)=1/2(+)$  baryons in light cone QCD sum rules**  
 ALIYEV T., Barakat T., SAVCI M.  
 PHYSICAL REVIEW D, vol.91, no.11, 2015 (SCI-Expanded)
- LX. **Determination of the mixing angle between new charmonium states**  
 ALIYEV T., SAVCI M.  
 EUROPEAN PHYSICAL JOURNAL C, vol.75, no.4, 2015 (SCI-Expanded)
- LXI. **Radiative  $\Omega(Q)^* \rightarrow \Omega(Q)\gamma$  and  $\Xi(Q)^* \rightarrow \Xi(Q)\gamma$  transitions in light cone QCD**  
 ALIYEV T., AZİZİ K., SUNDU PAMUK H.  
 EUROPEAN PHYSICAL JOURNAL C, vol.75, no.1, 2015 (SCI-Expanded)
- LXII. **More about the Mass of the New Charmonium States**  
 Aliev T., ÖZŞAHİN H., SAVCI M.  
 ADVANCES IN HIGH ENERGY PHYSICS, vol.2015, 2015 (SCI-Expanded)
- LXIII. **Magnetic Moments of 70-Plet Baryons in Quark Model and QCD Sum Rules**  
 ALIYEV T., Zamiralov V. S.  
 ADVANCES IN HIGH ENERGY PHYSICS, vol.2015, 2015 (SCI-Expanded)
- LXIV. **Magnetic moments of  $J(P)=3/2$ -baryons in QCD**  
 ALIYEV T., SAVCI M.  
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- LXV.  **$\gamma^*N \rightarrow N^*(1520)$  transition form factors in light cone QCD sum rules**  
 ALIYEV T., SAVCI M.  
 PHYSICAL REVIEW D, vol.90, no.9, 2014 (SCI-Expanded)
- LXVI. **Octet negative parity to octet positive parity electromagnetic transitions in light cone QCD**  
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 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.41, no.7, 2014 (SCI-Expanded)
- LXVII. **Properties of triply heavy spin-3/2 baryons**  
 ALIYEV T., AZİZİ K., SAVCI M.  
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- LXVIII. **Magnetic moments of  $\Xi'(Q)-\Xi(Q)$  transitions in light cone QCD**  
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 PHYSICAL REVIEW D, vol.89, no.5, 2014 (SCI-Expanded)
- LXIX. **Magnetic moments of negative parity baryons in QCD**  
 ALIYEV T., SAVCI M.  
 PHYSICAL REVIEW D, vol.89, no.5, 2014 (SCI-Expanded)
- LXX. **CASIMIR FORCE IN WARPED HIGHER DIMENSIONAL MODELS SURVEY**  
 ALIYEV T., Saad N., TURAN İ.  
 APPLIED AND COMPUTATIONAL MATHEMATICS, vol.13, no.2, pp.147-174, 2014 (SCI-Expanded)

- LXXI.  **$\gamma^*N \rightarrow N(1535)$  transition form factors in QCD**  
ALIYEV T, SAVCI M.  
PHYSICAL REVIEW D, vol.88, no.5, 2013 (SCI-Expanded)
- LXXII. **Electromagnetic transitions among octet and decuplet baryons in QCD**  
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- LXXIII. **Electromagnetic form factors of octet baryons in QCD**  
ALIYEV T, AZİZİ K., SAVCI M.  
PHYSICS LETTERS B, vol.723, pp.145-155, 2013 (SCI-Expanded)
- LXXIV. **The masses and residues of doubly heavy spin-3/2 baryons**  
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- LXXV. **Analysis of  $\gamma^*$   $\Lambda \rightarrow \Sigma(0)$  transition in QCD**  
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- LXXVI. **Masses and residues of the triply heavy spin-1/2 baryons**  
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JOURNAL OF HIGH ENERGY PHYSICS, vol.2013, no.4, 2013 (SCI-Expanded)
- LXXVII. **Lepton polarization effects in  $\Lambda(b) \rightarrow \Lambda l^{(+)}l^{(-)}$  decay in family non-universal  $Z'$  model**  
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- LXXVIII. **Doubly heavy spin-1/2 baryon spectrum in QCD**  
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- LXXIX. **Analysis of  $\Lambda(b) \rightarrow \Lambda l^{(+)}l^{(-)}$  decay within family non-universal  $Z'$  model**  
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- LXXX. **Mixing angle of doubly heavy baryons in QCD**  
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- LXXXI. **VECTOR MESON DOMINANCE AND RADIATIVE DECAYS OF HEAVY SPIN-3/2 BARYONS TO HEAVY SPIN-1/2 BARYONS**  
ALIYEV T, SAVCI M., Zamiralov V. S.  
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- LXXXII.  **$B \rightarrow K(2)l^{(+)}l^{(-)}$  decay beyond the standard model**  
ALIYEV T, SAVCI M.  
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- LXXXIII. **Strong coupling constants of heavy spin-3/2 baryons with light pseudoscalar mesons**  
ALIYEV T, AZİZİ K., SAVCI M.  
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- LXXXIV. **Nucleon tensor form factors induced by isovector and isoscalar currents in QCD**  
ALIYEV T, AZİZİ K., SAVCI M.  
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- LXXXV. **Vertices of the heavy spin-3/2 sextet baryons with light vector mesons in QCD**  
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- LXXXVI. **Spin-3/2 to spin-1/2 heavy baryons and pseudoscalar mesons transitions in QCD**  
ALIYEV T, AZİZİ K., SAVCI M.  
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- LXXXVII. **Tensor form factors of  $B \rightarrow K-1$  transition from QCD light cone sum rules**

- ALIYEV T, SAVCI M, Yang K.  
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- LXXXVIII. **Analysis of heavy spin-3/2 baryon-heavy spin-1/2 baryon-light vector meson vertices in QCD**  
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- LXXXIX. **Heavy baryon-light vector meson couplings in QCD**  
ALIYEV T, AZIZI K, SAVCI M.  
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- XC. **Strong coupling constants of light pseudoscalar mesons with heavy baryons in QCD**  
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- XCI. **Mixing angle of hadrons in QCD: A new view**  
ALIYEV T, ÖZPİNECİ A, Zamiralov V.  
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- XCII. **Strong transitions of decuplet to octet baryons and pseudoscalar mesons**  
Aliev T, AZIZI K, SAVCI M.  
NUCLEAR PHYSICS A, vol.847, pp.101-117, 2010 (SCI-Expanded)
- XCIII. **Strong coupling constants of decuplet baryons with vector mesons**  
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- XCIV. **Mass Formulas for Xi(c) and Xi(b) Baryons**  
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- XCV. **Magnetic dipole moment of the light tensor mesons in light cone QCD sum rules**  
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- XCVI. **Heavy chi(Q) (2) tensor mesons in QCD**  
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- XCVII. **Semileptonic decays of pseudoscalar mesons to the scalar f(0) meson**  
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- XCVIII. **Analysis of the Lambda b -> Lambda l(+)l(-) decay in QCD**  
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- XCIX. **Light vector meson octet-decuplet baryon vertices in QCD**  
ALIYEV T, ÖZPİNECİ A, SAVCI M, Zamiralov V. S.  
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- C. **On the mass and decay constant of K-2\*(1430) tensor meson**  
Aliev T, AZIZI K, Bashiry V.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.37, no.2, 2010 (SCI-Expanded)
- CI. **Collider effects of unparticle interactions in multiphoton signals**  
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## Supported Projects

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## **Congress and Symposium Activities**

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