

TƏRCÜMEYİ HAL

Azər İnşalla oğlu Əhmədov

Nəzəri Fizika kafedrasının dosenti

Fizika üzrə elmlər doktoru

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QISA BİOQRAFİK MƏLUMAT

1964-ci il aprel ayının 29-da Biləsuvar rayonunda anadan olub.

1982-ci ildə Biləsuvar şəhəri N.Gəncəvi adına 1 saylı orta məktəbi bitirib.

TƏHSİLİ VƏ ELMİ DƏRƏCƏ VƏ ELMİ ADLARI

1982 - 1989: tələbə, Fizika fakultəsi, Bakı Dövlət Universiteti

1989: Fərqlənmə diplomu. (Ali təhsil), Bakı Dövlət Universiteti

1992 - 1995: Fizika fakultəsi, Nəzəri Fizika kafedrası, Bakı Dövlət Universiteti, aspirant

1996: Fizika-riyaziyyat elmləri namizədi, İnküziv və Eksklüziv Hadron

Fotoyaranmalarının Bəzi Müasir Nəzəriyyələrdə Öyrənilməsi "Nəzəri və riyazi fizika", Bakı Dövlət Universiteti

2016: Fizika üzrə elmlər doktoru (2212.01-Nəzəri fizika)

ƏMƏK FƏALİYYƏTİ

10.1990- dən 11.2005-dək: Böyük elmi işçi, Yüksək Enerjilər fizikası Laboratoriyası
Bakı Dövlət Universiteti

11.2005 – dən hal-hazıra qədər: Böyük elmi işçi, Fizika Problemləri İnstitutu
Bakı Dövlət Universiteti

26.09.2007–dən hal-hazıra qədər: dosent, Fizika fakultəsi, Nəzəri Fizika kafedrası
Bakı Dövlət Universiteti

TƏDQIQAT SAHƏSİ

Perturbativ kvant xromodinamikası, Holografik kvant xromodinamikası,
Supersimmetriyanın fenomenologiyası

BEYNƏLXALQ SEMİNAR, SİMPOZİUM VƏ KONFRANSLARDA İŞTİRAKI

2008, October, Ankara, Turkey, The fifth Eurasian Conference on Nuclear Science and its Application.

2007, April, Tehran, Iran; IPM String School and Workshop

2005, July, Nathiagali, Pakistan; 30th International Nathiagali Summer College on Physics

2003, June–July, ICTP, Trieste, Italy; Summer School on Particle Physics

2003, September-October, Anzali, Iran; IPM String School and Workshop

2002, April, Shiraz, Iran; IPM String School and Workshop

2002, July, Nathiagali, Pakistan; 27th International Nathiagali Summer College on Physics

2000, July, Burban, Pakistan; 25th International Nathiagali Summer College on Physics

1998, July, ICTP, Trieste, Italy; Summer School in HEP and Cosmology
1997, July, Islamabad, Pakistan; 22nd International Nathiagali Summer College on Physics
1995, September, Serpukhov, Russia; VI Workshop on High Energy Spin Physics
1993, September, Serpukhov, Russia; V Workshop on High Energy Spin Physics
1992, November, Tabriz, Iran; Regional Conference on Mathematics and Theoretical Physics
1991, September, Serpukhov, Russia; IV Workshop on High Energy Spin Physics

LIST OF SELECTED PUBLICATIONS

1. **A. I. Ahmadov**, C. Aydin, O. Uzun. Direct Photon Production in Pion-Proton Collisions. **Journal of Physics: Conf. Series 804, 012001 (2017)**.
 2. Abdel Magied Diab, **Azar I. Ahmadov**, Abdel Nasser Tawfik and Eiman Abou El Dahab. SU(4) Polyakov linear-sigma model at finite temperature and density. Published in PoS ICHEP2016 (2016) 634; **Arxiv: nucl-th/1611.02693**
 3. M. Demirci and A. I. Ahmadov. Neutralino pair production via photon-photon collisions at the ILC. **Phys. Rev. D. 94, 075025 (2016)**
 4. **A. I. Ahmadov**, C. Aydin, R. Myrzakulov and O. Uzun. Higher-twist mechanism and inclusive gluon production in pion-proton collisions. **J. Phys. Conf. Ser. 670 (2016) no.1, 012001**
 5. **A. I. Ahmadov**, C. Aydin, R. Myrzakulov and O. Uzun. Higher-twist mechanism and inclusive gluon production in pion-proton collisions. **Int. J. Modern. Phys. A30, 1550219 (2015)**.
 6. M. Demirci and **A. I. Ahmadov**. Search Neutralino Pair Production at CERN LHC. **Phys. Rev. D. 89, 075015 (2014)**.
 7. **A. I. Ahmadov**, C. Aydin and O. Uzun. Inclusive gluon production in pion-proton collisions and the principle maximum conformality renormalization scale. **Phys. Rev. D. 89, 014018 (2014)**.
 8. **A.I.Ahmadov**, C. Aydin and O. Uzun, Analytical solutions of the Klein-Fock-Gordon equation with the Manning-Rosen potential plus a Ring-Shaped like potential, **Int. J. Modern. Phys. A29, 1450002 (2014)**.
 9. **A. I. Ahmadov** and M. Demirci, Single neutralino production at the LHC, **Phys. Rev. D 88, 015017 (2013)**.
 10. **A. I. Ahmadov**, C. Aydin and O. Uzun, Higher Twist Effects in the Direct Photon Production and the Role of Infrared Renormalons, **Phys. Rev. D 87, 014006 (2013)**.
 11. **A. I. Ahmadov** and M. Demirci, Electroweak Corrections to the Neutralino Pair Production at CERN LHC, **Int. J. Modern Physics A28, 1350077 (2013)**.
 12. **A. I.Ahmadov**, C.Aydin and F.Keskin, Pion wave functions from holographic QCD and the role of infrared renormalons in photon-photon collisions, **Phys. Rev. D 85, 034009 (2012)**.
 13. **A. I. Ahmadov**, C. Aydin and F. Keskin, Pion wave functions from holographic QCD and the role of infrared renormalons in photon-photon collisions, **Annals of Physics 327, 1472 (2012)**.
 14. **A. I. Ahmadov**, Sh. M. Nagiyev and E. A. Dadashov, Mezon production in proton-proton collisions in the naive non-abelianization approximation and the role of infrared renormalons, **Int. J. Mod. Phys. E21, No.2, 1250014 (2012)**.
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15. **A. I. Ahmadov** and R. M. Burjaliev, The meson production in proton-proton collisions in next-to-leading order and infrared renormalons,
Int. J. Mod. Phys. E20, No.5, pp. 1243 -1270 (2011).
16. **A. I. Ahmadov**, Coskun Aydin, E. A. Dadashov and Sh. M. Nagiyev, Single meson production in photon-photon collisions and infrared renormalons, **Phys. Rev. D 81, 054016 (2010).**
17. **A. I. Ahmadov**, Coskun Aydin, Sh. M. Nagiyev, Yilmaz A. Hakan and E. A. Dadashov, Infrared renormalons and single meson production in proton-proton collisions, **Phys. Rev. D80, 016003 (2009).**
18. V. H. Badalov, H. I. Ahmadov, **A. I. Ahmadov**, Analytical solutions of the Shredinger equation with the Woods-Saxon potential for arbitrary l state, **Int. J. Mod. Phys. E18, No.3, pp.631-641 (2009).**
19. **A. I. Ahmadov**, I. Boztosun, A. Soylu and E. A. Dadashov, Higher twist effects in photon-photon collisions, **Int. J. Mod. Phys. E, Vol.17, No.6, pp.1041-1059 (2008).**
20. F. S. Sadykhov, Coskun Aydin and **A. I. Ahmadov**, High twist contributions, quantum chromodynamics, and inclusive meson photoproduction at large p_T , **News Baku State University ISSN 1609-0586, №4, pp.181-190 (2007).**
21. **A. I. Ahmadov**, I. Boztosun, R. Kh. Muradov, A. Soylu and E. A. Dadashov, Higher twist effects in proton-proton Collisions, **Int. J. Mod. Phys. E 15, No.6, pp.1209-1232 (2006).**
22. **A. I. Ahmadov**, I. Boztosun, R. Kh. Muradov, A. Soylu and E. A. Dadashov, Investigation of the neutralino pair production at LHC, **Int. J. Mod. Phys. E 15, No.6, pp.1183-1208 (2006).**
23. **A. I. Ahmadov**. Radiative production at the lightest neutralino in electron-positron Annihilation, **Physics of Atomic Nuclei, Vol.69, No.1, pp.54-61, (2006).**
24. R. Kh. Muradov and **A. I. Ahmadov**, Contribution of superstring Z' boson on the polarization effects in proton-proton collisions, **Central Eur. J. Phys., 3(3) , pp.433-455 (2005).**
25. **A. I. Ahmadov** and R. Kh. Muradov, Role of generalized Sullivan processes in semi-inclusive Σ production, **Russian Physics Journal, Vol.48, No.7, pp.60-69 (2005).**
26. **A. I. Ahmadov**, Radiative Production at the Lightest Neutralino in Electron-Positron Annihilation, **Russian Physics Journal, Vol.48, No.6, pp. 48-57 (2005).**
27. **A. I. Ahmadov**. Radiative production at the lightest neutralino, **Physics of Particles and Nuclei Letters, Vol.2, No.2, pp.85-91 (2005).**
28. R. Kh. Muradov, **A. I. Ahmadov**, Kh. M. Adilova. Nonperturbative corrections for deep inelastic scattering cross-section ratio $R = \sigma_L / \sigma_T$, **Baku State University News, ISSN 1609-0586, №2, pp.15-24 (2002).**
29. R. Kh. Muradov, **A. I. Akhmedov**, R. M. Burjaliev Polarization effects in proton-proton collisions, **Physics of Atomic Nuclei, Vol. 65, №7, pp.1352-1358 (2002), Translated from Yadernaya Fizika, Vol.65, №7, pp.1385-1391 (2002).**
30. **A. I. Akhmedov**, R. Kh. Muradov, Single-transverse spin asymmetry in direct photon
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production, **I Eurasia Conference on Nuclear Science and its Application. 23 - 27 October 2000, Izmir Turkey, pp.450-451.**

31. R. Kh. Muradov, **A. I. Akhmedov**, R. M. Burjaliev. Polarization effects at the proton-proton collisions, **I Eurasia Conference on Nuclear Science and its Application. 23-27 October 2000, Izmir Turkey, pp.202-203.**

32. R. Kh. Muradov, **A. I. Akhmedov**, R. M. Burjaliev, Spin effects at the proton-proton collisions, *Russian Physics Journal*, Vol.43, №8, pp.95-103 (2000).

33. R. Kh. Muradov, **A. I. Akhmedov**, R. M. Burjaliev, The contribution of the sea quark and gluon in the spin of proton, **Russian Physics Journal, Vol.43, №8, pp.88-94 (2000).**

34. R. Kh. Muradov, **A. I. Akhmedov**, R. M. Burjaliev, The process of inclusive electroproduction pseudoscalar meson on the proton: extracting contribution strange quark in the spin of proton. **Russian Physics Journal, Vol.43, №1, pp.21-25 (2000).**

35. R. Kh. Muradov, **A. I. Ahmadov**, R. M. Burjaliev, Violation of the scaling in the deep inelastic electron-proton scattering, **News of Baku University, №3, pp.75-81 (2000).**

36. F. S. Sadykhov, **A. I. Akhmedov**, QCD investigation of polarization effects in the inclusive photoproduction of SUSY Particles, **Physics of Atomic Nuclei Vol.38, №10, pp.1788-1790 (1995). Translated from Yadernaya Fizika, Vol.58, №10, pp.1890 - 1893 (1995).**

37. F. S. Sadykhov, **A. I. Akhmedov**, Production of supersymmetric quarks in photon-gluon collisions, **Russian Physics Journal, Vol.38, №8, pp. 808-810 (1995).**

38. F. S. Sadykhov, **A. I. Akhmedov**, Photoformation Supersymmetric particles in deep inelastic scattering of photons by protons, **Russian Physics Journal, Vol. 38, №7, pp.713-716 (1995).**

39. F. S. Sadykhov, **A. I. Akhmedov**, Quantum chromodynamic investigation of polarization effects in inclusive photoproduction of supersymmetric particles, **Russian Physics Journal, Vol. 38, №6, pp.646-649 (1995).**

40. F. S. Sadykhov, **A. I. Akhmedov**, Contribution of high-order twists to the inclusive photoproduction process of mesons with large p_T , **Russian Physics Journal, Vol. 38, №5, pp. 513-518 (1995).**

41. **A. I. Akhmedov**, Inclusive photoproduction of the large $-p_T$ mesons and contributions High twist, **Regional Conference on Mathematics and Theoretical Physics. Tabriz, Iran. 22-25 November 1992.**

DÖVLƏT VƏ BEYNƏLXALQ PROQRAM VƏ QRANTLARI

2002- DAAD Qrantı, Almaniyanın Wuppertal Universiteti

2003-2006- Reintegrasiya Qrantı, NATO-nun baş ofisi, Brüssel, Belçika

01.02.2006-30.07.2006, TUBİTAK Qrantı, Erciyez Universiteti, Türkiyə

2006- DAAD Qrantı, Almaniyanın Bonn Universiteti

2008- Pakistan İslam Respublikasının Dövlət Qrantı, Lahor Universiteti

2009- DAAD Qrantı, Almaniyanın Axen Universiteti

2009- İyul-Avqust , Nəzəri Fizika Şöbəsi, Avropa Nüvə Tədqiqatları Mərkəzi, CERN,

Cenevrə, Visitor

2010 - 05July - 05 September, Beynəlxalq Nəzəri Fizika Mərkəsi, ICTP, Trieste, İtaliya, Visitor

2010-Sentyabr-Oktyabr, Nəzəri Fizika Şöbəsi , CERN, Cenevrə, Visitor

01.02.2006-30.07.2006, TUBİTAK Qranti, Erciyez Universiteti, Türkiyə

01.07.2011-30.10.2011, TUBİTAK Qranti, Trabzon Texniki Universiteti, Türkiyə

01.07.2012-30.12.2012, TUBİTAK Qranti, Trabzon Texniki Universiteti, Türkiyə

2013 – Sentyabr - Oktyabr, Nəzəri Fizika Şöbəsi, Avropa Nüvə Tədqiqatları Mərkəzi (CERN),

Cenevrə, Visitor

2013 Sentyabr-2014 Oktyabr, Nəzəri Fizika Şöbəsi, Avropa Nüvə Tədqiqatları Mərkəzi(CERN)

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24 İyun - 3İyul 2014, Dəvətli Professor, Ettore Majorana Foundation and Centre for Scientific Culture, International School of Subnuclear Physics, ERICE, Italy.

2014, Oktyabr - 2015 yanvar, Wuppertal University, Wuppertal, Germany, DAAD Qranti

22.06. 2015- 28.06. 2015, The XXIIIth International Colloquium on Integrable Systems (ISQS-23), Prague.

2015 Sentyabr - October, Nəzəri Fizika Şöbəsi, Avropa Nüvə Tədqiqatları Mərkəzi(CERN),

Cenevrə, Visitor

14.06. 2016- 18.06. 2016, The XXIVth International Colloquium on Integrable Systems (ISQS-24), Prague

18-30 İyul 2016, Dəvətli Lektor, 41st International Nathiagali Summer College on Physics and Contemporary Needs, Islamabad, Pakistan.

3-10 August, 2016 , 38-th International conference on High Energy Physics (ICHEP2016), Chicago - USA.

05.06. 2017 - 11.06. 2016, The XXVth International Colloquium on Integrable Systems (ISQS-25), Prague