



UZMA TABASSAM | Associate Professor

Location: Dept. of Physics, COMSATS University Islamabad Pakistan

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Professional Profile

I am Tenured Associate Professor in department of Physics, COMSATS University Islamabad, serving COMSATS since November, 2012. I have done my PhD in Experimental Nuclear Astrophysics in 2012 from University of Camerino, Italy. I am Physicists and team leader at COMSATS under ALICE Experiment collaboration at CERN Switzerland. I do teaching at graduate and undergraduate level. Beside this I do research in High Energy Physics especially Charged particles jet physics analysis, hadron physics, quark gluon plasma, Monte Carlo and minimum bias study of charged and strange particles. detector simulation, fabrication and construction of particle detectors are my interests. I do study of thermal freeze out parameters using non extensive Tsallis statistic and Hagedrone function.

Research Interest: Experimental nuclear Astrophysics, Experimental nuclear physics, Experimental high energy physics, Particle detector fabrication and construction, Phenomonology in high energy physics and particles spectroscopy.

Career Summary

1) 11th April 2022-Present

- **Tenured Associate Professor**

COMSATS University Islamabad Campus, Islamabad Pakistan

2) 21st November 2012 – April, 2022

- **Assistant Professor**

COMSATS University Islamabad Campus, Islamabad Pakistan

Key responsibilities

- *Teaching*
- *Research & Student Supervision (High energy physics data analysis, hadron physics, Quark Gluon plasma, Detector fabrication, Nuclear physics experiments).*

3) August 2015 - November 2015 & August 2016

Worked as a Physicists in ALICE experiment for comminoning, data taking and physics analysis of ALICE experiment at CERN, Switzerland

4) 2006-2007 Visiting physics faculty:

Federal Urdu University of Science, Art and Technology, Islamabad Pakistan.

Administrative duties:

- *Incharge Graduate Program of Physics*
- *Member of the departmental advisory committee*
- *Member of graduate admission committee*
- *Deputy convener of Departmental Academic Regulatory Committee*
- *Program Team Member for Self-Assessment of Graduate Programs of Physics*
- *Batch councillor BS level*
- *Deputy convener of the undergraduate final year project committee*

- *Female representative of physics department*
- *Member of departmental administrative affairs committee*

Education

- **PhD (Exp. Nuclear Astrophysics) – University of Camerino, Italy – 2009-2012.**
- **MS Physics – COMSATS University Islamabad Pakistan – 2006-2008.**
- **MSc Physics – Quaid-i-Azam University Islamabad Pakistan – 2003-2006.**

Publications (36 in ISI impact factor journals)

- 1) Zain Ul Abidin*, Uzma Tabassam† and Muhammad Ali, Determination of Tsallis parameters for $K^*(892)^*$ mesons in inelastic pp, pPb and PbPb collisions, Modern Physics Letters A (2023) 2350148 (12 pages)**
DOI: 10.1142/S0217732323501481
- 2) Alamgir Khan, Taimoor Khurshid, Yasir Ali, Uzma Tabassam, Qasim Ali, Monte Carlo predictions for $K^*(892)^0$ and $\phi(1020)^0$ mesons production in pp and Pb–Pb collisions at LHC energies, Eur. Phys. J. Plus (2023) 138:680**
<https://doi.org/10.1140/epjp/s13360-023-04324-3>
- 3) M. Waqas , G. X. Peng, A. M. Khubrani, M. Ajaz, U. Tabassam, Pei-Pin Yang, Pseudorapidity, transverse momentum and multiplicity distributions of charged particles in pp collisions at 13 TeV, Eur. Phys. J. Plus (2023) 138:450**
<https://doi.org/10.1140/epjp/s13360-023-04016-y>
- 4) Uzma Tabassam, Muhammad Awais, Khusniddin K. Olimov, Muhammad Majid, Analysis of properties of the charged-particle jets in pp collisions at 13 TeV using non-extensive Tsallis statistics, Eur. Phys. J. Plus (2023) 138:394**
<https://doi.org/10.1140/epjp/s13360-023-04002-4>
- 5) Uzma Tabassam, Yasir Ali, Khusniddin K. Olimov, Study of Multiplicity Dependence in Charmed Hadrons Production in pp Collisions at LHC Energies, Eur. Phys. J. Plus (2023) 138:367**
- 6) Zain ul abidin and Uzma Tabassam, Optimizing the Parton Showers in PYTHIA8 for Xe-Xe collision at 5.44 TeV, Modern Physics Letters A, Vol. 38, No. 4 (2023) 2350023 (11 pages)**
<https://dx.doi.org/10.1142/S0217732323500232>
- 7) Ajaz M., Haj Ismail A.A.K., Ullah Mian M., Khan R., Shehzadi R., Adil Khan M., AbdelKader A., Waqas M., Dawi E.A., Tabassam U., Charged Particles Transverse Momentum and Pseudorapidity Distribution in Hadronic Collisions at LHC Energies. Entropy 2023, 25, 452.**
<https://doi.org/10.3390/e25030452>

- 8) Zain Ul Abidin, **Uzma Tabassam**, Muhammad Ali, To study the strange particles production at RHIC energies, Eur. Phys. J. A (2023) 59:38
<https://doi.org/10.1140/epja/s10050-023-00943-7>
- 9) Muhammad Ali, **Uzma Tabassam**, Zain Ul Abidin, Muhammad Ajaz, Mais Suleymanov, Ahmed M. Khubrani, Muhammad Waqas and Muhammad Waqas, Elucidating the jet cross-section in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, International Journal of Modern Physics E, Vol. 31, Nos. 10 & 11 (2022) 2250102 (9 pages)
DOI: 10.1142/S0218301322501026
- 10) **Uzma Tabassam** et.al., Elucidating the neutral mesons productions at Large Hadron Collider energies in two centrality classes, Eur. Phys. J. Plus , 137:1008 (2022).
<https://doi.org/10.1140/epjp/s13360-022-03231-3>
- 11) Irfan Siddique, Shanshan Cao, **Uzma Tabassam**, Mohsin Saeed, and Muhammad Waqas, Electromagnetic anomaly in the presence of electric and chiral magnetic conductivities in relativistic heavy-ion collisions, Phys. Rev. C **105**, 054909 – Published 19 May (2022).
DOI:<https://doi.org/10.1103/PhysRevC.105.054909>
- 12) Muhammad Ajaz, Muhammad Waqas, Li-Li Li, abd Al Karim Haj Ismail, **Uzma Tabassam** and Mais Suleymanov, Bulk properties of the medium in comparison to models' predictions in pp collisions at 13 TeV, Eur. Phys. J. Plus (2022) 137:592
<https://doi.org/10.1140/epjp/s13360-022-02805-5>
- 13) **Uzma Tabassam**, Mujtaba Ali, Irfan siddique, Zain Ul abidin and Yasir Ali, The Production of ϕ Mesons at SPS, RHIC and LHC Energies, The European Physical Journal Plus, Eur. Phys. J. Plus (2022) 137:255
<https://link.springer.com/article/10.1140/epjp/s13360-022-02489-x>
- 14) Y. Ali, H. Zeenat, A. Arif, A. Kainat and **U. Tabassam**, Study of charm Λ_c^{++} baryon production in pp and p -Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Eur. Phys. J. Plus (2022) 137:209
<https://link.springer.com/article/10.1140/epjp/s13360-022-02375-6>
- 15) Zain Ul Abidin and **Uzma Tabassam**, PYTHIA8 and HIJING2 Predictions for the Xe – Xe Collisions at $\sqrt{s_{NN}} = 5.44$ TeV, Eur. Phys. J. Plus (2022) 137:115
<https://doi.org/10.1140/epjp/s13360-021-02333-8>
- 16) **Uzma Tabassam** et al., Strange Particles Production in pp and pPb collision at 7 TeV, Eur. Phys. J. Plus (2021) 136:793
<https://doi.org/10.1140/epjp/s13360-021-01698-0>
- 17) **U. TABASSAM**, S. ABBAS et al., Study of Average Transverse Sphericity in pp collision at LHC Energies, Turk J Phys (2021) 45: 212-217 © TÜBİTAK
<https://journals.tubitak.gov.tr/physics/vol45/iss4/5/>

- 18) YASIR ALI, **UZMA TABASSAM**, SYED UZAIR AHMED SHAH, ATIF ARIF, MAIS SULEYMANOV, ZAIN UL ABIDIN, **psi(2S) and J/psi Production in pp Collisions at $\sqrt{s} = 7, 8$ and 13 TeV**, Turk J Phys, 45, (2021), 90-104 .
<https://journals.tubitak.gov.tr/physics/vol45/iss2/3/>
- 19) A. Arif, Y. Ali , M. Haseeb, Q. Ali, **U. Tabassam**, M. Ahmed, M. Suleymanov, Study of transverse momentum and nuclear modification factors distribution of the charged particles produced in pp, and Pb-Pb collisions at 2.76TeV and 5.02TeV" , International Journal of Modern Physics E, Vol. 30, No. 8 (2021) 2150068 (12 pages).
<https://doi.org/10.1142/S0218301321500683>
- 20) Y. Ali, M. Ahmed, A. Arif, Q. Ali, **U. Tabassam**, U. Rubab and M. Suleymanov, Study of $K^*(892)^0$ and $\Phi(1020)$ meson production in proton–proton and Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, Commun. Theor. Phys. 73 (2021) 025202 (7pp).
<https://iopscience.iop.org/article/10.1088/1572-9494/abd0e7>
- 21) Q. Ali, Y. Ali, **U. Tabassam**, M. Haseeb and M. Ikram, Distribution of strange particles transverse momentum and rapidity in high energy proton–proton collisions at $\sqrt{s} = 0.9$ TeV at LHC, Modern Physics Letters A, Vol. 35, No. 05, 2050006 (2020)
- 22) Y. Ali, Q. Ali, M. Haseeb, M. Ajaz and **U. Tabassam**, Study of Pseudorapidity and Transverse-Momentum Distributions of Charged Particles in pp Interactions at $\sqrt{s} = 13$ TeV Using Hadron Production Models, Int. J. Theor Phys. (2019) DOI 10.1007/s10773-018-3985-y. <https://link.springer.com/article/10.1007/s10773-018-3985-y>
- 23) Q. Ali, Y. Ali , M. Haseeb and **U. Tabassam**, Study of transverse momentum distributions in p–Pb interactions at 0.9 TeV and 5.02 TeV, Modern Physics Letters A, Vol. 33, No. 31 (2018) 1850179 (7 pages).
<https://www.worldscientific.com/doi/abs/10.1142/S0217732318501791>
- 24) S. Ullah, Y. Ali, M. Ajaz, **U. Tabassam**, and Q. Ali, π^\pm , K^\pm , protons and antiprotons production in proton–carbon interactions at 31 GeV/c using hadron production models, International Journal of Modern Physics A, June 2018, Vol. 33, No. 17 .
<https://doi.org/10.1142/S0217751X18501087>
- 25) **U. Tabassam** et al., The production of π^\pm , K^\pm , p and \bar{p} in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Modern Physics Letters A ,Vol. 33, No. 17 (2018) 1850094 (7 pages).<https://www.worldscientific.com/doi/abs/10.1142/S0217732318500943>
- 26) **U. Tabassam** et al., Observation of universality for high pT distribution at LHC energies, International Journal of Modern Physics E, Vol. 27, No. 4, 1850036 (5 pages) (2018).<https://www.worldscientific.com/doi/abs/10.1142/S0218301318500362?src=recsys&journalCode=ijmpe>

- 27) M. Ajaz, **U. Tabassam**, Comparison of different hadron production models for the study of π^\pm , K^\pm , protons and antiprotons production in proton-carbon interactions at 90 GeV /c, Modern Physics Letters A, Vol. 33, No. 14, 1850079 (13 pages) DOI: 10.1142/S0217732318500797 (2018).
<https://www.worldscientific.com/doi/abs/10.1142/S0217732318500797?journalCode=mpla>
- 28) Y. Ali, **U. Tabassam**, M. Suleymanov, and A. S. Bhatti, Comparison study of the p_T distributions of the charged particles in p -Pb interactions at LHC energies, Modern Physics Letters A, Vol. 32, No. 31, 1750167 (9 pages) (2017) .
<https://www.worldscientific.com/doi/abs/10.1142/S021773231750167X?journalCode=mpla>
- 29) Y. Ali, N. Ullah Jan, **U. Tabassam**, M. Suleymanov and A. S. Bhatti, “Transverse momentum distribution of primary charged particles in p–Pb interactions at forward pseudorapidity at LHC energies”, International Journal of Modern Physics E, Vol. 26 (2017) 1750021 (9 pages).<https://www.worldscientific.com/doi/abs/10.1142/S0218301317500215>
- 30) **U. Tabassam** et al., “Transverse momentum distribution of primary charged particles in the p-Pb interactions using HIJING 1.0”, International Journal of Modern Physics A, Vol. 31, No. 24 (2016) 1650136 (8 pages)
<https://www.worldscientific.com/doi/abs/10.1142/S0217751X16501360>
- 31) **U. Tabassam**, K. Mehboob, Discussion of importance of e+e- pair emission in ^{12}C (a,g) ^{16}O capture reaction below 1.9 MeV energy, PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY, Series: Nuclear Physics investigations, 64, p.44-48 (2015).
- 32) Lubna Tabassam, **Uzma Tabassam** and Umair Manzoor, “Recent Progress in Structural and Electrochemical Properties of LiFePO_4 for Composite Based Batteries”, J. New Mat. Electrochem.Systems,8(4),193-205,(2015).<http://new-mat.org/ejournal/index.php/jnmes/article/view/348>
- 33) L. Guerro, A. Saltarelli, **U. Tabassam**, et al.,“A Pair Spectrometer for Nuclear Astrophysics Applications” Eur. Phys. J. A 50, 11, 171 (2014). <https://doi.org/10.1140/epja/i2014-14171-1>
- 35) Khurram Mehboob, Majid Ali, Raheel Ahmed and **Uzma Tabassam** “Thermal neutron albedo measurements for multilithic reflectors, Annals of nuclear energy , vol. 62, pp: 1-7 , (2013).<https://www.sciencedirect.com/science/article/pii/S0306454913002971?via%3Dihub>
- 36) Sohail Ahmad, Muhammad Ajaz, Yasir Ali, Hannan Younis, Kamal Hussain Kha, **Uzma Tabassum**, “MEASUREMENT OF INDOOR RADON CONCENTRATION

INDISTRICT MARDAN, KHYBER PAKHTUNKHWA, PAKISTAN”, journal of nuclear physics and atomic energy, ISSN 1818-331X NUCLEAR PHYSICS AND ATOMIC ENERGY 2018 Vol.19 No.2. https://hjrs.hec.gov.pk/index.php?r=site%2Fresult&id=889431#journal_result :<https://doi.org/10.15407/jnpae2018.02.190>

PUBLICATIONS Under ALICE COLLABORATION: Web Link:
(<http://inspirehep.net/author/profile/U.Tabassam.1>)

267 Publications in Impact factor journals.

Funded Research Projects

- 1) (Principle Investigator)** “Design and construction of HPXe (High Pressure Xenon) detector”, Approved by Higher education Commission of Pakistan, Islamabad, Pakistan. Status: Completed.
- 2) (Principle Investigator)** “Fabrication of Silicon Surface Barrier Detector”, Approved by COMSATS University Islamabad, Pakistan, Completed.
- 3) (CO-PI)** “Study of the effects of C-12 targets in the interactions with intense antiproton and ion beams”, Approved by Higher education Commission of Pakistan, Islamabad, Pakistan. Status: Completed.
- 4) (CO-PI)** “Kinetic Study of Fission products/activation product Activity under reactor Transient Conditions”, Approved by Higher education Commission of Pakistan, Islamabad, Pakistan. Status: Completed.

Student Supervision

PhD Supervision:

- 1) Supervising a PhD student with research project titled “*Inclusive Invariant Differential Cross Section of Primary and Strange Hadrons in Xe-Xe Interaction at 5.44 TeV*” Mr. Zain Ul Abidin (Current student).
- 2) Mentored/Supervisory Committee: “*Study of Inclusive Characteristics of Secondary Charged Particles Production in Hadron Nucleus Collision at LHC Energies*”, Mr. Qasim Ali, COMSATS University Islamabad. (Completed)

Graduate Supervision:

- 1) Supervising Mr. Danish Akhtar under research project titled “*Thermal freeze out parameters study at LHC energies*”. 2023
- 2) Supervising Mr. Asif Ali under research project titled “*Feasibility study of dark matter searches with leptoquarks and missing transverse energy*”. Spring 2023
- 3) Supervised Mr. Muhammad Awais under research project titled “*To study the Freeze Out Stages at High Energy*”. fall 2022

- 4) Supervised Mr. Majid under research project titled “*Multiplicity study of charged particles in pp collision at LHC*”, fall 2022.
- 5) Supervised Ambreena Zareef under research project titled “*To study the cold nuclear matter effect in p-Au collisions*”, fall 2022.
- 6) Supervised Lariab Akhtar under research project titled “*Production of Neutral Pions and eta Mesons at Mid-Rapidity in Pb-Pb Collisions*”, Fall 2021.
- 7) Supervised Zafar Ullah under research project titled “*Pseudorapidity and Energy Dependence of charged particles at LHC Energies*”, Spring 2022.
- 8) Supervised Mujtaba Ali under research project titled, *To Observe the Production of phi Mesons at SPS and LHC Energies*, Spring 2021.
- 9) Supervised Muhammad Ali under the research project titled, *Jets Cross Section in pp Collision at 5.02 TeV*, Fall 2020.
- 10) Supervised Muhammad Waqas under the research project titled, *GEANT4 Simulation of Prototype ALPIDE Chip for ALICE ITS*, Fall 2020.
- 11) Supervised Mr. Zain Ullah Khan under the research project titled, *Study of the Behavior of the Nuclear Modification Factor as a Function of Transverse Momentum for the Charged Particles Production in pPb Collision at LHC Energies*, Fall 2020.
- 12) Supervised Safdar Abbas under the research project titled, *The Study of Transverse Sphericity in pp Collision at LHC Energies*, Spring 2020.
- 13) Supervised Muhammad Anns Saif under the research project titled, *Charged Particle Multiplicity Density in Xe-Xe Collision at 5.44 TeV*, Spring 2020.
- 14) Supervised Syeda Saira under the project titled, *Study of Transverse Momentum Distribution in pp collision at 13 TeV*, Fall 2019.
- 15) Supervised Muhammad Rizwan under the project titled, *The study of the Transverse Momentum Spectra in PbPb Collisions at LHC Energies*, Fall 2019.
- 16) Supervised Muhammad Usman under the project titled, *Centrality Dependence of the Charged-Particle Multiplicity Density in pPb Collisions at $\sqrt{s_{NN}} = 8.16$ TeV*, Fall 2019.
- 17) Supervised Mrs. Anum Arsalan under the project titled, *Study of Strange Particles Production in pp and pPb collisions at LHC Energies*, Spring 2019.

MS Co-Supervision:

- 1) Co- supervisor Mr. Naveed Jan under project title, *Study of jet production in p-Pb collisions at LHC energies*, spring 2017.
- 2) Co-supervision: MS student, Thesis title: *Study of the Charmed and Strange meson production in Pb-Pb Collisions at the LHC energies*, Mr Mukhtar Ahmed, Spring 2020.
- 3) Co-supervision: MS student, Thesis title: *Study of the D-meson production in pp collisions at LHC energies*, Ms Umm-e-Rubab, Spring 2020.
- 4) Co-supervision: MS student, Thesis title: *Study of Strange Particle Production in Pb-Pb and pp Collisions at LHC Energies*, Mr Qamer Haroon, Fall 2020.
- 5) Co-supervision: MS student, Thesis title: *Study of Lambda(c) Baryon Production in pp and p-Pb Collisions at LHC Energies*, Miss Hifza Zeenat, Fall 2021.
- 6) Co-supervision: MS student, Thesis title: *Study of D-mesons Production in p-p and p-Pb Collisions at LHC Energies*, Miss Aneera Kainat, Fall 2021.

Undergraduate Supervision:

- 1) Supervising **1** undergraduate work under project titled “*Study of Phi mesons production using PYTHIA8 at LHC*”. Fall 2023.
- 2) Supervising **1** undergraduate work under project titled “*Investigating the thermal freeze out properties of charged particles in ALICE at LHC*”. Spring 2023.
- 3) Supervised **1** undergraduate work under project titled “*Probing the quark gloun plasma using the jet analysis at LHC energies*”. Spring 2018.
- 4) Supervised **2** undergraduate students under the research project titled, “*To study the p_T distribution using the real data of ALICE Experiment*”, Spring 2019.
- 5) Supervised **1** undergraduate student under the research project titled, “*Production of Charged Particles using HERWIG Event Generator*”, Spring 2019.
- 6) Supervised **1** undergraduate student under the research project titled, “*Hadron Production using Geant4*”, Spring 2019.
- 7) Supervised **2** undergraduate students under project title, “*High multiplicity pp events to investigate the collectivity*”, Spring 2017.
- 8) Supervised **3** undergraduate students under project titled, “*Performance of charmed baryons in ITS under angular correlation*”. Fall 2014. (2013-2014).
- 9) Supervised **2** undergraduate students under project titled, “*Transverse momentum distribution of charged jet in pp collision at 2.76 TeV and 5.02 TeV*, Fall 2016.

Awards

- The best poster award (second position) titled “study of collectivity of high multiplicity in pp events at 14 TeV” in “International scientific school under the collaboration of ICTP Italy and NCP” held in NCP Islamabad Pakistan from 13-17 March, 2017.
- Research productivity award 2016,2017 by COMSATS University Islamabad Campus, Islamabad Pakistan, September, 2016,2017.
- Research productivity award 2014 COMSATS University Islamabad Campus, Islamabad Pakistan, 22nd, March 2014.

Graduate Awards and Scholarships

Name of Award: INFN Fellowship, Italy

Award giving Institution name: University of Camerino, Italy

Award annual value: 13000 Euros Per annum

Award start and end date: 26/02/2009 to 26/02/2012

Research: “A Pair Spectrometer for Nuclear Astrophysics Applications”.

Skills and Competences

Team Leader of ALICE experiment under collaboration with COMSATS University Islamabad Campus, Pakistan.

- 1) Member of PWG Jet and (Physics Analysis) and PWG MM.
- 2) ALICE DATA taking 2015. Performed SL duties at ALICE site CERN Switzerland.
- 3) ALICE DATA taking 2016. Performed SL duties at ALICE site CERN Switzerland.
- 4) Commissioning and data taking of ERNA experiment at INFN laboratory at CATANIA & INFN laboratory of CASERTA, Naples Italy.

Experience/Competences

- AliRoot for the Physics analysis of ALICE experiment.
- Monte Carlo event generators: HIJING, PYTHIA8, UrQMD, EPOS-LHC, EPOS-1.99, QGSJETII-04, Sibyll2.3 and HERWIG++
- ROOT for physics data analysis

- GEANT4 for the simulation of detector geometry
- Fabrication (UHV) and construction of particle detectors
- Microsoft Word, Latex, Linux
- Origion for data analysis
- Operating the Electron Microscope
- Handling of NaI(Tl), HPGe, SSBD and BF3 detectors for spectroscopy
- Front end electronics of alpha beta and gamma spectroscopy

Conferences/Seminars/Workshop

- Participated in 48th international Nathiagali summer college on physics and contemporary needs, 10th - 22nd July 2023.
- **Planery talk** as invited speaker at VII International conference “Modern Trends in Physics 2021” on December 15-17, 2021 at BAKU state university, Azerbaijan.
- Participation in the 10th School on LHC Physics organized by NCP, Islamabad Pakistan from August 23-27, 2021 virtually.
- **Invited speaker** at Pakistan Institute of Nuclear Science & Technology, Islamabad, Symposium on “Data Analysis for High Energy Physics”, November 27-28, 2018.
- **Invited speaker** at PRESTON University Islamabad Pakistan on 18th April, 2018; title of talk “A Journey to the beginning of Universe”.
- Participated in Workshop on “Prospects of Collaborative Research with CERN”, National centre for Physics, Islamabad Pakistan. (2015)
- Two days seminar on *Pakistan’s Collaborations with CERN and SESAME; 14-15, (2016) in Pakistan Institute of Nuclear Science and Technology (PINSTECH), Islamabad Pakistan.*
- Poster presentation on first “Science Day” at Camerino University, Italy 2012.
- Participation in the 6th European summer school in Santa Tecla, Catania (Italy), on Experimental Nuclear Astrophysics from 19th Sept, 2011 to 27th Sept, 2011.
- Participation in seminar on “Radiation Protection” on 07/2009 at University of Perugia, Italy.
- Attended the seminar on “Simulation to Material Science” on 18th April, 2011, Camerino University, Italy.

- Attended the Seminar on “Dark Energy and Dark Matter in the Curvature of Earth” on 11th May, 2011.
- Participation in the workshop on Nuclear Astrophysics “GIANTS 2010” in Catania (Italy) from 29th April, 2010 to 31st April, 2010.
- Participation in the Enrico Fermi School in Varenna (Italy), on Nuclear Physics & Nuclear Astrophysics from 19th July, 2010 to 24th July, 2010.
- Participation in the School on “Nuclear Shell model” in Legnaro (Italy) from 21st October, 2010 to 26th October, 2010.

References

1) Professor Dr. Arshad Saleem Bhatti

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3) Prof. Dr. Khusniddin Olimov

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