

CURRICULUM-VITAE

Name: *Tufail Ahmad*

Present Position: Associate Professor

Address: Department of Physics,
Aligarh Muslim University, Aligarh-202002, U.P., India

Educational Qualifications:

- B.Sc. (Physics Hons.), First Division, Aligarh Muslim University, Aligarh, 1981
- M.Sc. (Physics), First Division, Aligarh Muslim University, Aligarh, 1983
- M. Phil (Physics), Awarded, Aligarh Muslim University, Aligarh, 1986
- Ph. D. (Physics), Awarded, Aligarh Muslim University, Aligarh, 1989

Title of Ph.D. Thesis: “Some Characteristics of High Energy Hadron-Nucleus Collisions”

Field of Specialization / Research interest: Experimental High Energy Nuclear Physics and Relativistic Heavy Ion Collisions

Academic Experience:

- Research Associate (University Grants Commission), Aligarh Muslim University, January 09, 1990 to September 16, 1992
- Lecturer, Aligarh Muslim University, September 17, 1992 to January 08, 1995
- Senior Lecturer, Aligarh Muslim University, January 09, 1995 to January 08, 2000
- **Reader, January 09, 2000 to December 31, 2005**
- **Associate Professor, January 01, 2006 till date.**

Foreign Assignment: Worked as Asstt. Professor, Deptt. of General Sciences, Yanbu Industrial College (Royal Commission), Saudi Arabia, August 31, 2007 to July 01, 2012.

Publication: Published twenty papers in the Journal of international repute and contributed papers in various Symposia and Conferences.

Scholarships:

- Junior Research Fellowship, Aligarh Muslim University, Aligarh
- Senior Research Fellowship, Aligarh Muslim University, Aligarh

University Administration:

Working as **Deputy Dean Students' Welfare** since July, 2016 and coordinating with the Provosts of different Halls of Residence.

Worked as **Deputy Proctor** of the University for more than two years (2013-2016) and looked after the law and order situation in the campus.

Worked as Warden in M. M. Hall and V. M. Hall for six years (1998-2004)

Participation in corporate life of the university:

Elected member, Executive Committee, AMU Teachers' Association (AMUTA), 1995-1997

Joint Secretary, AMU Teachers' Association (AMUTA), 2005-2006

Hony. Secretary, AMU Teachers' Association (AMUTA), 2006-2007

Personal Details:

Father's Name	:	(Late) Mr. Masood Ahmad
Date and Place of Birth	:	January 01, 1963, Basti (U.P.) India
Nationality	:	Indian
Religion	:	Islam
Marital Status	:	Married

LIST OF PUBLICATIONS

Papers Published in Journals

1. A study of pion-nucleus interactions in terms of compound particles.
Tufail Ahmad
ISRN High Energy Physics, **2014**, pp. 1-6 (2014).
2. A study of compound particles in emulsion.
Tufail Ahmad
Journal of Advances in Physics, **6**, pp. 1172-1177 (2014).
3. Some aspects of multiparticle production in high energy nuclear interactions.
Tufail Ahmad
IOSR Journal of Applied Physics, **6**, pp. 73-76 (2014).
4. Characteristics of particles produced in hadron-nucleus collisions.
Tufail Ahmad
Journal of Advances in Physics, **6**, pp. 1066-1070 (2014).
5. Scaling of multiplicity distribution in high energy hadron-nucleus interactions.
Tufail Ahmad
IOSR Journal of Applied Physics, **6**, pp. 15-19 (2014).
6. Characteristics of compound multiplicity in hadron-nucleus collisions.
Tufail Ahmad, N. Ahmad, S. Ahmad and M. Zafar
Indian Journal of Pure and Applied Physics, **48**, pp. 855-859 (2010).
7. Cluster production in 14.5A GeV/c Si-Nucleus collisions.
A. Shakeel, W. B. Tak, N. Ahmad, A. R. Khan, M. Zafar, M. Irfan, A. Tufail and A. Ahmad
Int. J. Modern Physics **E8**, pp. 121-129 (1999).
8. Evidence for intermittency in hadron-nucleus and nucleus-nucleus collisions at relativistic energies.
R. Hasan, M. Zafar, M. S. Ahmad and A. Tufail
Int. J. Modern Physics **A14**, pp. 3451-3465 (1999).
9. Features of forward-backward multiplicity correlations in hadronic collisions.
A. Tufail, S. Ahmad and M. Zafar
Canad. J. Phys., **74**, pp. 141-143 (1996).
10. Some features of inelastic interactions of ^{28}Si and ^{12}C ions in nuclear emulsions at 4.5A GeV/c.
M. Tariq, M. Zafar, A. Tufail and S. Ahmad
Int. J. Modern Physics **E4**, pp. 347-370 (1995).

11. Angular distribution of slow and relativistic charged particles produced in Silicon and Carbon-emulsion interactions at 4.5A GeV/c.
M. Tariq, S. Ahmad, A. Tufail and M. Zafar
Il Nuovo Cimento **107A**, pp. 2687-2699 (1994).
12. Variation of particle number density in rapidity-space with number of participating nucleons in 4.5 GeV Si and C interactions with emulsion nuclei.
M. Tariq, A. Tufail, S. Ahmad and M. Zafar
Il Nuovo Cimento **106A**, pp. 617-625 (1993).
13. A study of pion-nucleon interactions in emulsion.
A. Tufail, M. Zafar and M. Shafi
Il Nuovo Cimento **105A**, pp. 439- (1992).
14. A study of multiparticle production process in 340 GeV/c π^- -interactions with emulsion nuclei using the method of rapidity-gap distribution of showers.
A. Tufail, Taiyab, S. Ahmad, A .R. Khan, M. Zafar and M. Shafi
Canad. J. Phys. **69**, pp. 1373-1375 (1991).
15. Multiplicity correlations and KNO scaling in pion-nucleus interactions.
A. Tufail, S. Ahmad, M. Zafar and M. Shafi
Il Nuovo Cimento **104A**, pp. 145-150 (1991).
16. Particle production in π^- -nucleus collisions at 340 GeV/c.
A. Tufail, S. Ahmad, A. R. Khan, M. Zafar and M. Shafi
Int. J. Modern Physics **A6**, pp. 929-934 (1991).
17. Nuclear Interactions of 340 GeV pions in emulsion.
A. Tufail, S. Ahmad, A. R. Khan, M. Zafar and M. Shafi
Phys. Rev. **D42**, pp. 2187-2193 (1990).
18. Clustering in multiparticle production at 340 GeV/c pion-nucleus interactions.
A. Tufail, S. Ahmad, M. Tariq, A. R. Khan, M. Zafar and M. Shafi
Il Nuovo Cimento **103A**, pp. 1435-1442(1990).
19. A study of rapidity-gap distribution of showers by eliminating phase space effects.
A. Tufail, H. Ahrar, S. Ahmad, M. Zafar and M. Shafi
Canad. J. Phys., **65**, pp. 790-792 (1987).
20. Production of clusters and heavy clusters in nucleon-nucleon interactions at 400 GeV/c.
H. Ahrar, S. Ahmad, A. Tufail, M. Zafar And M. Shafi
J. Phys. Soc. Japan **56**, pp. 2351-2356 (1987).

Papers Contributed in International/National Symposia/Seminar/Conferences:

1. Characteristics of compound particles produced in nucleus-nucleus interactions.
Tufail Ahmad
XXII DAE-BRNS High Energy Physics Symposium, December 12-16, 2016, University of Delhi.

2. Angular characteristics of particles produced in pion-nucleus interactions.
Tufail Ahmad
DAE_BRNS Symposium on Nuclear Physics, December 05-09, 2016, SINP Kolkata.
3. Some characteristics of multiparticle production in pion-nucleus interactions.
Tufail Ahmad
National conference on advances of Applied Sciences in Engineering & Technology, February 20-21, 2015, Mangalayatan University, Aligarh
4. A study of compound particle in pion-nucleus interactions.
Tufail Ahmad
DAE Symposium on Nuclear Physics, December 03-07, 2012, University of Delhi.
5. Scaling of charged particle multiplicity distributions in relativistic nuclear collisions.
N. Ahmad, Hushnud, M. M. Khan, M.D. Azmi, Tufail Ahmad, M. Zafar and M. Shafi
DAE Symposium on Nuclear Physics, December 26-30, 2011, Vishakapatnam
6. Multiplicity distribution in different rapidity windows in relativistic nuclear collisions.
N. Ahmad, M.M. Khan, A. Kamal, S. Ahmad, Tufail Ahmad and A.H. Naqvi
XVI DAE Symposium on HEP, November 29 – December 03 (2004), Saha Institute of Nuclear Physics, Kolkata.
7. Multiplicity distribution in different rapidity windows in relativistic nuclear collisions
N. Ahmad, M.M. Khan, A. Kamal, S. Ahmad, Tufail Ahmad and A.H. Naqvi
XVI DAE Symposium on HEP, November 29 – December 03 (2004), Saha Institute of Nuclear Physics, Kolkata.
8. Characteristics of events accompanied by hadrons in the backward hemisphere in relativistic nucleus-nucleus collision.
S. Ahmad, W.B. Tak, N. Ahmad, Tufail Ahmad and A.R. Khan
DAE Symposium on Nuclear Physics, December 27-31, (1999) Chandigarh
9. Angular Characteristics of Charged shower particles produced in 4.5A and 14.5A GeV/c Si-nucleus interactions
W. Bari, Tufail Ahmad, A. Ahmad and A.R. Khan
XIII DAE Symposium on HEP, December 26-30 (1998), Punjab Univ. Chandigarh
10. Multiparticle production in relativistic nucleus-nucleus collisions
A. Shakeel, N. Ahmad, M. Irfan, M. Zafar and Tufail Ahmad
III Int. Conf. on Physics and Astrophysics of Quark-Gluon-Plasma (ICPA-QGP'97), March 17-21 (1997), Jaipur
11. On cluster formation in relativistic heavy ion collisions
A. Shakeel, W.B. Tak, A. Tufail, A. Ahmad, A.R. Khan and A.H. Naqvi
DAE Symposium on Nuclear Physics, December 26-30, (1997) Bangalore
12. A study of central collision events of C and Si-ions with emulsion nuclei at 4.5A GeV
M. Zafar, M. Tariq, S. Ahmad and A. Tufail
X HEP symposium, December 26-31 (1992), TIFR, Bombay

13. Rapidity and rapidity-gap distributions of shower particles produced in nucleus-nucleus collisions at 4.5A GeV
M. Tariq, S. Ahmad, A. Tufail and M. Zafar
Nucl. Phys. Symposium, December 21-24 (1992), BARC, Bombay
14. Dependence of the pseudorapidity distribution on the multiplicity of charged shower particles
A. Tufail, S. Ahmad, M. Zafar and M. Shafi
Nucl. Phys. Symposium, December 27-31 (1988), BARC and TIFR, Bombay
15. Some interesting results in 340 GeV/c π^- -interactions with emulsion nuclei
A. Tufail, S. Ahmad, H. Ahrar, A.R. Khan, M. Zafar, U. Ali and M. Shafi
IX HEP Symposium, December 05-09 (1988), IIT, Madras
16. A Nuclear interactions of 340 GeV pion and 400 GeV proton in emulsion.
H. Ahrar, S. Ahmad, A. Tufail, M. Zafar and M. Shafi
Indian Science Congress, January 07-12 (1988), Pune
17. Formation of clusters at accelerator energies
H. Ahrar, A. Tufail, S. Ahmad, M. Zafar, A.R. Khan, Z. Ahmad and M. Shafi
VIII HEP Symposium, November 11-17 (1986), SINP, Calcutta
18. Some features of hadron-nucleus interactions in forward-backward hemispheres at 24, 50, 340 and 400 GeV/c.
A. Tufail, H. Ahrar, S. Ahmad, M. Zafar and M. Shafi
VIII HEP Symposium, November 11-17 (1986), SINP, Calcutta
19. Phase space effects in hadron-nucleus collisions
A. Tufail, H. Ahrar, S. Ahmad, M. Zafar and M. Shafi
National Seminar on Particle Physics and Cosmology, March 10-13 (1986), IACS Calcutta
20. Multiplicity correlations among forward and backward rapidity cones at high energies.
A. Tufail, S. Ahmad, H. Ahrar, M. Zafar and M. Shafi
VII HEP Symposium, October 08-11 (1984), Jammu
21. Some results on particle production in high energy hadron-nucleus collisions at 24, 50, 340 and 400 GeV/c
H. Ahrar, S. Ahmad, A. Tufail, M. Zafar and M. Shafi
VII High Energy Physics (HEP) Symposium, October 08-11 (1984), Jammu