

DEPARTMENT PHYSICS
PROFILE OF TEACHING STAFF AS ON 30-06-2025

Dr. Md Abdul Kayum Jafry

- Total Teaching Experience in this College: **18 Years 8 months**
- Special Paper/Specialization in **M.Sc.: High Energy Physics**

- (a) Full Name: **Dr. Md Abdul Kayum Jafry**
(b) Present Designation: **Associate Professor**
(c) Areas of Specialization: **High Energy Physics**
(d) E-mail ID: **akjafry25@gmail.com**
(e) WhatsApp Number: **9433600914**

(f) Academic Qualifications (From UG Onwards):

Sl. No.	University/College/Institution from which the Degree was obtained	Name of the Degree e.g., M.A.	Year of Obtaining Degree
1	Bangabasi College (University of Calcutta)	B.Sc (Physics Hons.)	1986
2	Jadavpur University	M.Sc (Physics)	1990
3	Jadavpur University	Ph. D (Physics)	1999
4	UGC-CSIR	NET	2002

(g) Teaching Experiences:

Sl. No.	Name of the University/College/Institution	Period (i.e., From.....to)
1	Shibpur Dinobundhoo Institution(College)	01/11/2006 to date

(h) Research Experiences:

Sl. No.	Academic Session	Name of the University/College/Institution	Period (i.e., From.....to)
1	1995-1999	Jadavpur University	1995-1999

(i) RC/OP/FIP/STC Attended:

Sl. No.	Academic Session	RC/OP/FIP/STC etc.	University/Institution	Period (i.e., From.....to)	Online/Offline
1	2008-09	OP	Jadavpur University	18/08/2008 to 13/09/2008	offline
2	2010-11	RC	Jadavpur University	13/09/2010 to 04/10/2010	offline
3	2014-15	RC	Jadavpur University	03/03/2015 to 28/03/2015	offline
4	2015-16	STC	Jadavpur University	22/03/2016 to 28/03/2016	offline
5	2016-17	RC	Jadavpur University	02/01/2017 to 21/01/2017	offline
6	2019-20	FIP	IIT Kanpur	02/04/2020 to 02/06/2020	online

(j) Projects (Completed):

Sl. No.	Academic Session	Funding Agency (e.g., UGC-MRP, ICSSR, WBBB etc.)	Project Title	Grant Received (Rs.)	Date of Completion	UC Submitted on
1	2008-09	UGC-MRP	Study of fluctuation and phase transition in pionisation and target fragmentation at SPS energy	Rs 68000.00	21/04/2010	26/04/2010

NUMBER OF PUBLICATIONS & CONFERENCE/ SEMINARS

Sl. No.	Academic Session	Published Papers in National Journals (Number)	Published Papers in International Journals (Number)	Book published as Author (Number)	Book published as Editor (Number)	Articles/Chapters Published in Books (Number)	Conference/Seminar Volumes (Number)	Papers accepted/ Presented in Conferences, Seminars, Workshops, Symposia (Number)	Invited Lectures and Chairmanships at National or International Conference/Seminar (Number)	News Paper Publications (Number)	Books Reviewed (Number)
		5	21	0	0	0	0	0	0	0	0

DETAILED LIST OF PUBLICATIONS

(a) JOURNALS (National)

Sl. No.	Title with Page No.	Journal	ISSN No.	Whether peer-reviewed.	Impact factor, if any.	No. of Co-Authors	Whether you are the sole author
1	Three particle short range azimuthal correlation of pions in ^{32}S -AgBr interactions at 200 AGeV. Vol.68(2020)p.115	Indian Journal of Theoretical Physics;	0019-5693	yes		1	yes
2	Evidence of multifractality of the pion production process at 60 GeV/n. Vol.65(2017)p.77	Indian Journal of theoretical Physics;	0019-5693	yes		1	yes

3	Indication of azimuthal long range correlation of pions in ultra-relativistic nuclear interactions. Vol.64(2016)p.51	Indian Journal of theoretical Physics	0019-5693	yes		2	yes
4	Evidence of non-statistical fluctuation in target fragmentation in ultra high energy nuclear interaction. Vol . 74 (2000)p.49.	Indian Journal of Physics A	0973-1458	yes	1.79	8	No
5	Dynamical short range pion correlation in ultrarelativistic heavy-ion interaction. Vol. 72(1998)p.313.	Indian Journal of Physics A	0973-1458	yes	1.79	9	No

(b) **JOURNALS (International)**

Sl. No.	Title with Page No.	Journal	ISSN No.	Whether peer-reviewed.	Impact factor, if any.	No. of Co-Authors	Whether you are the sole author
1	Analytical model of compact star in low-mass X-ray binary with de Sitter space time. Vol.19(2019)p.26	Research in Astronomy and Astrophysics	1674-4527	yes	1.03	3	No
2	Analytical model of massive Pulsar J0348+0432 Vol.362 (2017)p. 188	Astrophysics and Space Science	0004-640X	yes	1.622	3	Yes
3	The Finslerian compact star model Vol.75 (2015)p.564	The European Physical Journal C	1434-6044	yes	5.44	4	No
4	Analytical model of strange star in the low-mass X-ray binary 4U 1820-30 Vol.74 (2014)p. 2971	The European Physical Journal C	1434-6044	yes	5.44	4	No
5.	Singularity free solutions for anisotropic charged fluids with Chaplygin equation of state. Vol.82 (2010) 104055	Physical Review D	2470-0029	yes	4.82	3	No
6	Multifractal specific heats in ultrahigh energy nuclear collisions. Vol.707(2002)p.213.	Nuclear Physics A	0375-9474	yes	2.5	4	No
7	Void probability scaling in ultra-relativistic heavy ion interactions. Vol.15(2001)p.329	Astroparticle Physics	0927-6505	yes	3.58	6	No
8	Maximum fluctuations of charged particle density in narrow pseudorapidity space at ultrarelativistic nuclear collision. Vol.62 (2000) p. 037902	Physical Review C	0556-2813	yes	3.73	7	No
9	Nonstatistical fluctuations in ^{16}O -AgBr interaction at 60 AGeV in terms of factorial correlators. Vol.8(2000)p.97	Euro Physics Journal A	2190-5444	yes	2.42	4	No
10	Factorial correlator study in ^{16}O -AgBr interaction at 60 AGeV. Vol.26(2000)p.405.	Journal of Physics G	0954-3899	yes	2.77	5	No
11	Evidence of non-statistical fluctuation in medium energy protons emitted in the fragmentation process of ultra-relativistic nuclear interaction. Vol.48 (1999)p.508.	Europhysics Letter	0295-5075	yes	2.10	9	No
12	Multiparticle production in nucleus-nucleus interaction at	IL Nuovo Cimento A	0369-3546	yes		9	No

	2.1 GeV/n-200 GeV/n- four momentum transfer analysis. Vol.112(1999)p.277.						
13	Multifractality and intermittency study of ultrarelativistic ^{32}S -AgBr and ^{16}O - AgBr interactions – further evidence of a non-thermal phase transition. Vol.14 (1999)2091.	International Journal for Modern Physics A	0217-751X	yes	1.70	6	No
14	Multidimensional intermittency analysis in ultrarelativistic heavy ion interaction. Vol.59 (1999)p.2286.	Physical Review C	0556-2813	yes	3.73	5	No
15	Evidence of dynamical many particle correlation in heavy-ion interaction at 60 AGeV & 200 AGeV. Vol. 111 (1998)p.1361.	IL Nuovo Cimento A	0369-3546	yes		9	No
16	Evidence of multifractal nature of target evaporated slow particles produced in ultrarelativistic heavy ion interactions. Vol.58(1998)p.3553	Physical Review C	0556-2813	yes	3.73	9	No
17	Evidence of non-thermal phase transition in ultrarelativistic heavy-ion interaction. Vol.41(1998)p.371.	Europhysics Letter	0295-5075	yes	2.10	5	No
18	Study of multiplicity distribution in full phase space in ultrarelativistic nuclear collision. Vol.6(1997)p.37.	Fizika B	1330-0016	yes		9	No
19	Fluctuation and fractality study of target residue in ^{32}S -AgBr interaction at 200 AGeV. Vol.73(1997)p.269.	Z. Physics C	0170-9739	yes	3.83	8	No
20	Fluctuation study of pionisation in ultra-relativistic nucleus-nucleus interaction. Vol.71(1996)p.243.	Z. Physics C	0170-9739	yes	3.83	8	No
21	Factorial Correlator study in ^{32}S -AgBr interaction at 200 AGeV. Vol.52(1995)2092.	Physical Review C	0556-2813	yes	3.73	8	No

ASSOCIATION WITH UNIVERSITIES/ COMMISSION/ BOARD/ INSTITUTIONS FOR CONFIDENTIAL ASSIGNMENTS

Sl. No.	Name of Universities/ Commission/ Board/ Institutions etc.
1	University of Calcutta

MEMBERSHIP OF ACADEMIC/PROFESSIONAL BODIES/SOCIETIES

Sl. No.	Name of the Society/Association/Professional Bodies etc.
1	Indian Association of Cultivation of Science