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	Designation	Professor				
	Department	Physics & Astrophysics				
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	Web-Page					
Education						
Subject	Institution	Year	Details			
Ph.D	Physical Research Laboratory, Ahmedabad	1991	Thesis topic: Studies of low energy anomalous and galactic cosmic rays in near earth space			
M.Sc	North Bengal University	1985	Subjects: Physics			
B.Sc	North Bengal University	1983	Subjects: Physics(Hons)			
Career Profile						
Organisation / Institution	Designation	Duration	Role			
Physical Research Laboratory, Ahmedabad	Post Doctoral Fellow	1991-93	Research			
Delhi University	Lecturer	1993-1998	Research, Teaching			
Delhi University	Sr. Lecturer	1998-2003	Research, Teaching			
Delhi University	Reader	2003-2006	Research, Teaching			
Delhi University	Associate Professor	2006-2011	Research, Teaching			
Delhi University	Professor	2011-	Research, Teaching			
Research Interests / Specialization						
Cosmic Rays, Space Physics, X-Ray Astronomy						
Teaching Experience (Subjects/Courses Taught)						
<u>Papers</u>			<u>Labs</u>			
Atomic & Molecular Physics			Electronics (final)			
Statistical Mechanics			Nuclear Physics (Final)			
Electronics, E.M. Theory			Electronics (previous)			
Astronomy & Astrophysics						
Honors & Awards						

Best Paper award by Nuclear Track society of India, 1991
Best paper award by National Space Science Symposium, 1992

Publications (LAST FIVE YEARS)

Books / Monographs

<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>Co-Author</u>
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In Indexed/ Peer Reviewed Journals

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author</u>
2008	Search for orbital motion of the Pulsar 4U 1626-67: Candidate for a neutron star with a supernova fall-back accretion disk	<i>Journal of Astrophysics and Astronomy</i> , 28, 175	Chetana Jain, Biswajit Paul, Kaustubh Joshi, Harsha Raichur
2008	Pulse Phase Dependence of the Magnetar Bursts	<i>Journal of Astrophysics and Astronomy</i> , 28, 185	Chetana Jain & Biswajit Paul
2008	Orbital evolution measurement of the accreting millisecond X-ray pulsar SAX J1808.4-3658	<i>Journal of Astrophysics and Astronomy</i> , 28, 197	Chetana Jain & Biswajit Paul
2009	Discovery of a short orbital period in the Supergiant Fast X-ray Transient IGR J16479-4514	<i>Monthly Notices of the Royal Astronomical Society (Letters)</i> , 397, L11	Chetana Jain & Biswajit Paul
2009	Orbital and spin period evolution of LMXB 4U 1822-37	<i>Bulletin of Astronomical Society of India</i>	Chetana Jain & Biswajit Paul
2009	Orbital X-ray modulation study of three supergiant HMXBs	<i>Research in Astronomy Astrophysics</i> , 9, 1303, IOP	Chetana Jain & Biswajit Paul
2010	Spectral and temporal changes associated with flux enhancement in 4U 1626-67	<i>Monthly Notices of the Royal Astronomical Society</i> , 403, 920	Chetana Jain & Biswajit Paul

2011	New measurement of orbital and spin period evolution of the accretion disc corona source 4U 1822-37	<i>Monthly Notices of the Royal Astronomical Society</i> , 409, 755	Chetana Jain & Biswajit Paul
2014	Astrophysical Signatures of Scalar-Photon Interaction.	<i>European Academic Research, Vol-II, Issue 9</i> , 12451-12483	M.K.Jaiswal, A.K.Ganguli, S.Mondal & S.Awasthi
2017	Indication of a massive circumbinary planet orbiting the Low Mass X-ray Binary MXB 1658– 298	<i>Monthly Notices of the Royal Astronomical Society</i> , 468, L118-L122	Chetana Jain , Biswajit Paul , Rahul Sharma & Abdul Jaleel
2018	Thermonuclear X-ray burst of MXB 1658-298 with NuSTAR	<i>Journal of Astrophysics and Astronomy</i> , 39, 16	Rahul Sharma, Abdul Jaleel, Chetana Jain , & Biswajit Paul ,
2018	“Spectral properties of MXB 1658-298 in low/hard and high/soft state”	<i>Monthly Notices of the Royal Astronomical Society</i> , 481, 5560-5569	R. Sharma, A. Jaleel, C. Jain, J. C. Pandey, B. Paul
2019	“Study of the reflection spectra of SAX J1748.9-2021”	<i>Monthly Notices of the Royal Astronomical Society</i> , 482, 1634-1639	R. Sharma, C. Jain,

Conference Presentations

1. Strong CP problem and axion phenomenology

Awasthi, Sikha; Ganguly, A.K.; Jaiswal, M.K. and Dutta, A.

Dec 2013; p. 834-835; 58. DAE-BRNS symposium on nuclear physics; Mumbai (India); 2-6 Dec 2013

2. Orbital decay of the low mass X-ray binary MXB 1658-298 and indication of a massive circumbinary planet from X-ray eclipse timing.

Chetana Jain, Biswajit Paul, Rahul Sharma, Abdul Jaleel and Anjan Dutta

3. Spectroscopic study of the dipping behaviour of MXB 1658-298 with XMM-Newton.

Rahul Sharma, Abdul Jaleel, Chetana Jain, Biswajit Paul and Anjan Dutta

XXXV Meeting of Astronomical Society of India , Jaipur, 6 - 10 March, 2017, SG-2

4. Spectroscopic study of faint X-ray Pulsators.

Abdul Jaleel, Rahul Sharma, Chetana Jain, Biswajit Paul and Anjan Dutta

XXXV Meeting of Astronomical Society of India, Jaipur, 6 - 10 March, 2017, SG-13

5. Study of the thermonuclear X-ray bursts of MXB 1658-298 with NuSTAR.

Rahul Sharma, Abdul Jaleel, Chetana Jain, Biswajit Paul, Anjan Dutta

RETCO - III, 2017, June 5-7: IIST, Thiruvananthapuram

6. Spectroscopy of MXB 1658-298 in two accretion states during recent outburst.

Rahul Sharma, Abdul Jaleel, Chetana Jain, Jeewan C. Pandey, Anjan Dutta

ASI 2018, 5-9 Feb : Osmania University, Hyderabad

7. Phase resolved spectroscopy of Cyg X-3 using High Resolution Grating Spectra and NuSTAR observations.

Abdul Jaleel, Sabyasachi Pal, Rahul Sharma, Anjan Dutta, Chetana Jain

ASI 2018, 5-9 Feb : Osmania University, Hyderabad

8. "Spectroscopic study of the dipping behavior of MXB 1658-298 with XMM-Newton" at Young Astronomers' Meet (YAM 2017) held in IUCAA, Pune during September 2017

9. "Spectral state dependence of the accretion disc absorption in MXB 1658-298" at Exploring the Universe: Near Earth Space Science to Extra-Galactic Astronomy (EXPUNIV-2018) held in S N Bose National Centre for Basic Sciences, Kolkata during 14-17 November 2018; *Rahul Sharma, Abdul Jaleel, Chetana Jain, Jeewan C. Pandey, Biswajit Paul, Anjan Dutta*

Total Publication Profile optional
<u>Books</u> 1
<u>In Indexed/ Peer Reviewed Journals</u> 45
<u>Articles</u>
<u>Conference Presentations</u> 40
Public Service / University Service / Consulting Activity
Member Faculty of Science Conducting Entrance Exam. Conducting M.Sc, Exam Secrecy, Tabulation, Result of M.Sc. Exam Member of various other committee of the Department
Professional Societies Memberships
Associateship IUCAA Associateship COSPAR Life member Nuclear Track Society of India
Projects (Major Grants / Collaborations)
Other Details

(Signature of Faculty Member)

(Signature & Stamp
of Head of the Department)