



University Faculty Details Page on DU Web-site

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Title	Prof.	First Name	Debajyoti	Last Name	Choudhury	Photograph
Designation		Professor				
Department		Department of Physics & Astrophysics				
Address (Campus)		Room No: 170, Multistoried Block Department of Physics & Astrophysics University of Delhi, Delhi – 110 007				
(Residence)		87 Mandakini Enclave, New Delhi – 110 019				
Phone No (Campus)		+91 - 11 – 2766 7739 (Office)				
(Residence) optional						
Mobile						
Fax		+91 – 11 - 27667093				
Email		Debajyoti.Choudhury@gmail.com , debchou@physics.du.ac.in				
Web-Page						
Education						
Subject	Institution		Year	Details		
Ph.D	Physical Research Laboratory, Ahmedabad		1991	Thesis topic: Fermion Masses and Mixings		
M.Sc (Physics)	Indian Institute of Technology, Kanpur		1986	Subjects: Physics		
B.Sc (Physics – Hons.)	University of Delhi		1984	Subjects: Physics(Hons.), Mathematics & Chemistry		
Career Profile						
Organisation / Institution		Designation	Duration	Role		
University of Delhi, Delhi		Professor	Since 1.4.2004 - Present	Teaching, Research, Guiding PhD students		
HarishChandra Research Institute, Allahabad		Professor, Associate Associate Prof. Reader , Fellow	2003 – 2006 2001 – 2003 1998 -- 2001 1997 - 1998	Research, Teaching, guiding students		
Indian Association for the Cultivation of Science, Kolkata		Senior Reader	2003 - 2004	Research, Teaching, guiding students		
CERN, Geneva, Switzerland		John. S. Bell Fellow	1996 – 1997, 1994 - 1995	Research		
Max-Planck Institut for Physik, Werner Heisenberg Institut, Munich, Germany		Research Fellow	1995 – 1996, 1993 - 1994	Research		
Tata Institute for Fundamental Research, Mumbai		Post-doctoral Fellow	1991-1993	Research		
Research Interests / Specialization						
<u>High Energy Physics</u> <u>Cosmology</u>						
Teaching Experience (Subjects/Courses Taught)						
<ol style="list-style-type: none"> 1. Classical Mechanics 2. Quantum Mechanics I 						

3. Quantum Mechanics II
4. Statistical Mechanics
5. Electromagnetic Theory
6. Radiation Theory
7. Quantum Field Theory I
8. Quantum Field Theory II
9. Particle Physics I
10. Particle Physics II
11. Advanced Mathematical Physics
12. String Theory
13. Advanced Solid State Theory II
14. Nuclear Physics Laboratory (core)
15. PHY 601 (Ph.D. course)
16. Path Integrals in Physics

Honors & Awards

1. Fellow of the Indian National Science Academy (INSA) 2014
2. Fellow of the National Academy of Sciences of India (NASI) (2012)
3. Fellow of the Indian Academy of Sciences (IASc) (2010)
4. Ramanna Fellowship (DST) (2005)
5. Swarnajayanti Fellowship (DST) (1999)
6. Associate of the Indian Academy of Sciences (1993)

Publications (LAST FIVE YEARS)

Books / Monographs

<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>Co-Author</u>
NA			

In Indexed/ Peer Reviewed Journals (2013 to 2018)

2013	Anomalous Higgs Couplings as Window to New Physics	<i>Phys. Rev. D88 (2013) 1, 013014</i>	R. Islam, A. Kundu
2013	Model Independent Analysis of Interactions between Dark Matter and Various Quarks	<i>JHEP 1304 (2013) 031</i>	B. Bhattacharjee, K. Harigaya, S. Matsumoto, M.M. Nojiri
2014	Z-pole observables in an effective theory	<i>Phys. Rev. D89 (2014) 013002</i>	A. Kundu, P. Saha
2014	Higgs Boson Discovery versus Sparticles Prediction: Impact on the pMSSM's Posterior Samples from a Bayesian Global Fit	<i>UJPA 2(3) (2014) 155</i>	S. AbdusSalam
2014	Testing non-standard neutrino matter interactions in atmospheric neutrino propagation	<i>Phys. Rev. D93 (2016) 093017</i>	A. Chatterjee, P. Mehta, R. Gandhi
2014	Graviton modes in multiply-warped geometry	<i>Phys. Lett B476 (2015) 266</i>	M.T. Arun, A. Das, S. SenGupta
2014	A Geometric Approach to Modulus Stabilization	<i>Phys. Rev. D92 (2015) 2, 026008</i>	S. Anand, A.A. Sen, S. SenGupta
2015	Bulk Gauge and matter field in nested warping: I. the formalism	<i>JHEP 1509 (2015) 202</i>	M.T. Arun
2016	Bulk gauge and matter fields in nested warping: II. Symmetry Breaking and phenomenological consequences	<i>JHEP 1604 (2016) 133</i>	M.T. Arun
2016	Little Higgs after the little one	<i>JHEP 1606 (2016)074</i>	D.K. Ghosh, S.K. Rai, I. Saha
2016	The LHC Diphoton excess at 750 GeV in the framework of the Constrained Minimal Supersymmetric Standard Model	<i>arXiv: 1605.00013 [hep-ph]</i>	K. Ghosh
2016	Bounds on Universal Extra Dimension from LHC Run I and Run II data	<i>Phys. Lett. B 763 (2016) 155</i>	K. Ghosh
2017	Stabilization of moduli in spacetime with nested warping	<i>Nucl. Phys. B923</i>	M. T. Arun

	and the UED	(2017) 258	
2017	Search for bottom squarks in the baryon-number violating MSSM	<i>Phys. Rev. D</i> 96 (2017) 035024	D. Bardhan, A. Chakraborty, D.K. Ghosh, M. Maity
2017	Unified resolution of the $R(D)$ and $R(D^*)$ anomalies and the lepton flavor violating decay $h \rightarrow \mu \bar{\tau}$	<i>Phys.Rev. D</i> 95 (2017), 035021	A. Kundu, S, Nandi and S.K. Patra
2017	Universal Extra Dimensions and the Graviton Portal to Dark Matter	<i>JCAP</i> 1710 (2017), 041	M.T. Arun, D. Sachdeva
2017	Minimal Unified Resolution to $R(K^{(*)})$ and $R(D^{(*)})$ anomalies with lepton mixing	<i>Phys. Rev. Lett.</i> 119 (2017) 151801	A. Kundu, R. Mondal and R. Sinha
2018	Living Orthogonally: Quasi-universal Extra Dimensions	<i>JHEP</i> 1901(2019) 230	M.T. Arun, D. Sachdeva
2018	Probing nonstandard neutrino oscillations at the LHC Run II	<i>Phys. Lett B</i> 784 (2018) 248	K. Ghosh and S. Niyogi
2018	$R(K^{(*)})$ and $R(D^{(*)})$ anomalies resolved with lepton mixing	<i>Nucl. Phys. B</i> 933 (2018) 433	A. Kundu, R. Mondal and R. Sinha
2018	Infrared finiteness of theories with bino-like dark matter: I. Zero temperature	<i>ArXiv:1812.04247 [hep-ph]</i>	P.Sen and D. Indumathi
2018	Infrared finiteness of theories with bino-like dark matter: II. Finite temperature	<i>ArXiv:1812.06468 [hep-ph]</i>	P.Sen and D. Indumathi
<u>Articles</u>			
<u>Conference Presentations</u> SEVERAL.			
Total Publication Profile <i>optional</i>			
<u>Books</u> ONE			
<u>In Indexed/ Peer Reviewed Journals</u> 163 papers in indexed/peer reviewed journals Details can be found at: http://inspirehep.net/search?ln=en&ln=en&p=a+d.+choudhury+and+not+a+d.k.+choudhury+and+not+a+d.c.+choudhury+and+not+a+s.b.d.+choudhury+and+not+a+b.d.+choudhury+and+not+a+jain+and+not+a+trivedi+and+not+a+phillips+and+not+a+vempati+and+not+a+lahiri&of=hb&action_search=Search&sf=earliestdate&so=d&rm=&rg=25&sc=0			
<u>Articles</u>			
<u>Conference Presentations</u> SEVERAL.			
Public Service / University Service / Consulting Activity			

<ol style="list-style-type: none"> 1. Member, PAC (High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics) of the DST. , 2. DST committee for SERC School in THEP. 3. Served on Selection Committee for INSPIRE Faculty Awards 4. Served on Selection Committee for UGC-FRP 5. Served on Selection Committees for several national institutions 6. Served on Institutional Peer Review Committees for several institutions 7. Served on several CSIR committees 8. Served on several University-appointed committees. 9. Served on organizing committee for several national and international conferences/workshops 10. Refereeing papers submitted to journals (Phys. Rev. D., Phys. Rev. Lett., Phys. Lett. B., Jour. High Energy Phys., Jour. Cosmo. Astroparticle Phys., Gen. Relav. & Gravity, Class. & Quant. Grav.)
Professional Societies Memberships
Projects (Major Grants / Collaborations)
<ol style="list-style-type: none"> 1. SERC project on 'Physics Beyond the Standard Model' 2. Ramanna Fellowship project 3. SERC project on 'Cosmology and Black Holes in Higher Dimensions' 4. INO project 5. European Union Project 'Invisibles'
Other Details

22.08.2018

(Signature of Faculty Member)

(Signature & Stamp
of Head of the Department)