




University Faculty Details Page on DU Web-site

Title	Prof.	First Name	Debajyoti	Last Name	Choudhury	
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. Quantum Field Theory I
7. Quantum Field Theory II
8. Particle Physics I
9. Particle Physics II
10. PHY 601 (Ph.D. course)
11. 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 (2009 to 2014)

2010	<u>Non-universal scalar mass scenario with Higgs funnel region of SUSY dark matter: A Signal-based analysis for the Large Hadron Collider.</u>	<i>Phys.Rev. D81 (2010) 075009</i>	S. Bhattacharya, U. Chattopadhyay, D. Das, B. Mukhopadhyaya
2010	<u>Deciphering Universal Extra Dimension from the top quark signals at the CERN LHC</u>	<i>JHEP 1008 (2010) 051</i>	A. Datta, K. Ghosh
2010	<u>Dirac Neutralinos and Electroweak Scalar Bosons of N=1/N=2 Hybrid Supersymmetry at Colliders</u>	<i>JHEP 1008 (2010) 025</i>	S.Y. Choi, A. Freitas, J. Kalinowski, J.M. Kim, P.M. Zerwas
2010	<u>Mutual consistency of the MINOS and MiniBooNE Antineutrino Results and Possible CPT Violation.</u>	<i>arXiv:1007.2923 [hep-ph]</i>	A. Datta, A. Kundu
2011	<u>Probing Top Anomalous Couplings at the Tevatron and the Large Hadron Collider</u>	<i>Pramana 77 (2011) 1079-1093</i>	P. Saha
2011	<u>A Fourth generation, anomalous like-sign dimuon charge asymmetry and the LHC.</u>	<i>JHEP 1102 (2011) 033</i>	D.K. Ghosh
2011	<u>The Extended Higgs System in R-symmetric Supersymmetry Theories.</u>	<i>Phys.Lett. B697 (2011) 215-221</i>	S.Y. Choi, A. Freitas, J. Kalinowski, P.M. Zerwas
2011	<u>Top polarization, forward-backward asymmetry and new physics</u>	<i>Phys.Rev. D84 (2011) 014023</i>	R.M. Godbole, S.D. Rindani, P. Saha

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2011	Late-time acceleration in Higher Dimensional Cosmology	<i>JCAP 1109 (2011) 015</i>	I. Pahwa, T.R. Seshadri
2011	Flavour Structure of R-violating Neutralino Decays at the LHC.	<i>JHEP 1107 (2011) 070</i>	N.-E. Bomark, S. Lola, P. Osland
2011	Search for the lightest scalar top quark in R-parity violating decays at the LHC	<i>JHEP 1110 (2011) 004</i>	M. Datta, M. Maity
2012	Radiative leptogenesis at the TeV scale.	<i>JCAP 1204 (2012) 017</i>	N. Mahajan, S. Patra, U. Sarkar
2012	Standard Cosmology Delayed.	<i>JCAP 1202 (2012) 046</i>	D. Ghoshal, A.A. Sen
2012	Exploring two Universal Extra Dimensions at the CERN LHC	<i>JHEP 1204 (2012) 057</i>	A. Datta, D.K. Ghosh, K. Ghosh
2012	Dijet resonances, widths and all that.	<i>JHEP 1201 (2012) 155</i>	R.M. Godbole, P. Saha
2012	Higgs production as a probe of anomalous top couplings.	<i>JHEP 1208 (2012) 144</i>	P. Saha
2012	Dijet signals of the Little Higgs model with T-parity	<i>JHEP 1207 (2012) 013</i>	D.K. Ghosh, S.K. Rai
2012	B-decay anomalies in an effective theory	<i>Phys. Rev. D86 (2012) 114037</i>	D.K. Ghosh, A.Kundu
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>IJPA 2(3) (2014) 155</i>	S. AbdusSalam
2014	Testing non-standard neutrino matter interactions in atmospheric neutrino propagation	<i>arXiv:1409.8472[hep-ph]</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
<u>Articles</u>			
<u>Conference Presentations</u> SEVERAL.			
Total Publication Profile optional			

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<u>Books</u> ONE
<u>In Indexed/ Peer Reviewed Journals</u> 135 papers in indexed/peer reviewed journals Details can be found at: http://inspirehep.net/search?ln=en&ln=en&p=author%3AD.Choudhury.1
<u>Articles</u>
<u>Conference Presentations</u> SEVERAL.
<u>Public Service / University Service / Consulting Activity</u> <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.) 11. Editorial Board of Pramana
<u>Professional Societies Memberships</u>
<u>Projects (Major Grants / Collaborations)</u> <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'
<u>Other Details</u>

22.08.2015