



Faculty Details Performa for DU College Web-site



Title	Dr.	First Name	Neelakshi N. K.	Last Name	Borah	Photograph
Designation	Assistant Professor (Physics)					
Address	8016, Sector B11, Vasant Kunj, New Delhi - 110070					
Phone No (Office)						
Residence						
Mobile	9910758963					
e-mail	neelakshiborah@andc.du.ac.in					
Web-page						
Educational Qualifications						
Degree		Institution			Year	
Ph. D. (Physics)		Gauhati University			2017	
M. Sc. (Physics)		Dibrugarh University			2004	
Career Profile						
2017 – Till Date: Assistant Professor (Physics) -Adhoc at Acharya Narendra Dev College, University of Delhi, India						
Administrative Assignments						
Annual Report Committee, Eco Club, Cultural Committee, Fellowship Committee, Academic Events & North East Cell etc. of Acharya Narendra Dev College						
Areas of Interest/Specialization						
Theoretical High Energy Physics						
Subjects Taught						
Classical Dynamics, Applied Optics, Physics of Devices & Communications, Linear Algebra, Mathematical Physics, Astronomy & Astrophysics						
Research Guidance						
Publications Profile						
<ol style="list-style-type: none"> 1. Neelakshi N. K. Borah, D. K. Choudhury and P. K. Sahariah, <i>Comparison of analytical solution of DGLAP equations for $F_2^{NS}(x,t)$ at small x by two methods</i>, Advances in High Energy Physics (2013), 829803. 2. Neelakshi N. K. Borah, D. K. Choudhury and P. K. Sahariah, <i>Non-singlet structure function $F_2^{NS}(x, t)$ in DGLAP approach</i>, Journal of Physics (2014), 0122023. 3. Neelakshi N. K. Borah, P. K. Sahariah and D. K. Choudhury, <i>A comparative analysis of approximate solutions of DGLAP equations for non-singlet structure function $F_2^{NS}(x,Q^2)$</i>, JASS-A Journal of Assam Science Society (2011), 57. 4. Neelakshi N. K. Borah, Dilip K. Choudhury and Paban K. Sahariah, <i>Analytical methods of solutions of DGLAP equation and the spin dependent structure function $g_1^{NS}(x,Q^2)$</i>, JASS-A Journal of Assam Science Society (2012), 69. 5. D. K. Choudhury and Neelakshi N. K. Borah, <i>Comparative analysis of analytical solutions for $F_2^P(x, t)$ in the DGLAP approach</i>, Physical Review D (2017), 014002 6. Neelakshi N. K. Borah and D. K. Choudhury, <i>An Analytical Study of the non-singlet spin structure function $g_1^{NS}(x, t)$ upto NLO in the DGLAP approach at small x</i>, Advances in High Energy Physics (2014), 379829 7. Neelakshi N. K. Borah, D. K. Choudhury and P. K. Sahariah, <i>Non-singlet spin structure function</i> 						

- $g_1^{NS}(x, t)$ in the DGLAP approach, PRAMANA-journal of Physics (2012), 833-837
8. Neelakshi N. K. Borah and Dilip Kumar Choudhury, *Comparison of analytical solutions of the coupled DGLAP equations for F_2^P at small x* , National Conference on "Current Issues in Cosmology, Astrophysics and High Energy Physics (CICAHEP) 2015", Dibrugarh University, 215-220.
 9. Neelakshi N. K. Borah, Dilip. K. Choudhury and Paban. K. Saharaiah, *Analytical Solutions of DGLAP Evolution equation for non-singlet structure function $F_2^{NS}(X, Q^2)$* , XIX DAE-BRNS High Energy Physics Symposium 2010, LNMIIT Institute of Information technology, Jaipur, India.
 10. Neelakshi N. K. Borah, Dilip. K. Choudhury and Paban. K. Saharaiah, *An Analytical Approach towards the spin structure of the Proton*, UGC Sponsored National Seminar on Recent Development in Natural Sciences 2012, DKD College, Dergaon, India in collaboration with North-East Centre for Research and Development, IGNOU, Guwahati, India.
 11. Neelakshi N. K. Borah, Dilip. K. Choudhury and Paban. K. Saharaiah, *Spin dependent structure functions and a comparative study of its Approximate Analytical Solutions*, One Day UGC-SAP National Seminar on New Frontiers in Physics 2012, Department of Physics, Gauhati University, Guwahati, India.
 12. Neelakshi N. K. Borah, D. K. Choudhury and P. K. Saharaiah, *An analytical study of the non-singlet spin structure function $g_1^{NS}(x, t)$ in the DGLAP approach*, International Workshop - Quarks, Hadrons, and LHC 2011, IIT Bombay, Mumbai, India

Conference/Presentations/Workshops

1. XXIV SERC Main School in Theoretical High Energy Physics, 2-21 March 2009, IIT Guwahati, India
2. XIX DAE-BRNS High Energy Physics Symposium, December 13-18, 2010, Jaipur, India
3. National Workshop on Computational Physics, February 14-19, 2011, Department of Physics, Mizoram University, Aizawl, India
4. UGC Sponsored National Seminar on Recent Development in Natural Sciences, 20-21 January 2012, DKD College, Dergaon, India
5. One Day UGC-SAP National Seminar on New Frontiers in Physics, 11 May 2012, Department of Physics, Gauhati University, Guwahati, India
6. Lepton Photon 2011, XXV International Symposium on Lepton and Photon Interactions at High Energies, 22-27 August 2011, TIFR, Mumbai
7. NC-HEPC 2013, National Conference on Contemporary Issues in HEP and Cosmology, February 12-14, 2013, Department of Physics, Gauhati University, Guwahati, India
8. International Workshop – Quarks, Hadrons, and LHC, 28-30 August 2011, IIT Bombay, Mumbai

Research Projects(Major Grants/Research Collaboration)

Awards and Distinctions

Association With Professional Bodies

Life Member, Physics Association of North East (PANE), Indian Physics Teacher's Association

Other Activities