


CURRICULUM VITAE

Title	Dr.	First Name	Neelakshi N. K.	Last Name	Borah	Photograph
Designation	Assistant Professor (Physics)					
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Educational Qualifications						
Degree		University			Year	
Ph. D. (Physics)		Gauhati University			2017	
M. Sc. (Physics)		Dibrugarh University			2004	
Career Profile						
<ul style="list-style-type: none"> Nov 2022 - till date: Assistant Professor in the Department of Physics, Hansraj College Jul 2017 - Nov 2022: Assistant Professor in the Department of Physics, Acharya Narendra Dev College 						
Administrative Assignments						
Areas of Interest/Specialization						
Theoretical High Energy Physics						
Subjects Taught						
Classical Dynamics, Linear Algebra, Mathematical Physics, Astronomy & Astrophysics						
Research Guidance						
Publications Profile						
<ul style="list-style-type: none"> 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. 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. 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. 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. 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 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 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

- 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.
- 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.
- 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.
- 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.
- 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

- XXIV SERC Main School in Theoretical High Energy Physics, 2-21 March 2009, IIT Guwahati, India
- XIX DAE-BRNS High Energy Physics Symposium, December 13-18, 2010, Jaipur, India
- National Workshop on Computational Physics, February 14-19, 2011, Department of Physics, Mizoram University, Aizawl, India
- UGC Sponsored National Seminar on Recent Development in Natural Sciences, 20-21 January 2012, DKD College, Dergaon, India
- One Day UGC-SAP National Seminar on New Frontiers in Physics, 11 May 2012, Department of Physics, Gauhati University, Guwahati, India
- Lepton Photon 2011, XXV International Symposium on Lepton and Photon Interactions at High Energies, 22-27 August 2011, TIFR, Mumbai
- NC-HEPC 2013, National Conference on Contemporary Issues in HEP and Cosmology, February 12-14, 2013, Department of Physics, Gauhati University, Guwahati, India
- 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 Northeast (PANE), Indian Physics Teacher's Association

Other Activities