Faculty Profile

Name: ATRI DESHAMUKHYA

Designation: ASSOCIATE PROFESSOR

Department/Centre: PHYSICS

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Educational Qualifications: M.Sc in Physics, Gauhati University (1995); Ph.D in Physics, Gauhati University (2001); PG Diploma in HRM, SYMBIOSIS, 2012

Areas of Interest: High Energy Physics, Cosmology , Atmospheric dynamics

Work Experience: [In chronological order with the recent one at the last.]

Name of the Organization	Designation	Period		Nature of Post (permanent/temporary/Ad-hoc/ contractual etc.)
		From	To	
G C College	Lecturer	2001	2007	Permanent
Mizoram University	Lecturer	2007	2007	Permanent
Assam University	Lecturer	2007	2009	Permanent
Assam University	Reader	2009	2012	Permanent
Assam University	Assocaite Prof	2012	Till date	Permanent

Projects: [In chronological order with the recent one at the last. Mention shall be made if the project is ongoing or completed]

Project Title	Awarding Agency	Period	Amount Sanctioned	Ongoing/ Completed
Analytical Solotuion of coupled functions	UGC F.5-124/2003-04(MRP?NERO)/1712/213 dt June 25, 2004	2004-2006	30,000/-	Completed

		2007-2009	70,000/-	Completed
Perturbations and other aspects in Tachyon Cosmology	UGC F.5-41/2006-07 (MRP/NER)/5539 dt March 28, 2007	2007-2009	70,000/-	Completed
A Study of Warm Inflationary Scenario in String Inspired Cosmology	Dept of Atomic Energy, Govt of India 2009/37/24/BRNS	2009-2013	13 lakhs (approx)	Completed

Publications in Peer Reviewed Journals (Maximum 5)

Authors	Title of the Paper/Chapter	Name of the Journal/Book	Journal/Book details	ISSN/ISBN
Atri Deshamukhya, A C Sarma, T N Rao and S Sharma	A study of rain drop size distribution during stratiform rain and development of its parameterization scheme in the framework of multi parameter observations	Meteorological Applications. (Royal Meteorological Society), Wiley	2016 Vol 23, Issue 2, p254	1469-8080
Anindita Bhattacharjee, Atri Deshamukhya and Sudhakar Panda	A note on Low energy effective theory of Chromo Natural Inflation in the light of BICEP2 results	Modern Physics Letters A. (World Scientific)	2015 Vol 30, Issue 11, p1550040	0217-7323
Anindita Bhattacharjee Atri Deshamukhya and	Warming up D3 brane motion in the background of D5 brane and Inflation	European Physics Journal C. (Springer)	20 14 Vol 74 Issue 11, p3135	1434-6052
Amna Ali, Atri Deshamukhya, Sudhakar Panda and M Sami	Inflation with improved D3-brane potential and the fine tunings associated with the model	European Physics Journal C. (Springer)	2011 Vol 71 p1672	1434-6052
P Chingangbam, Atri Deshamukhya and S Panda	Non-minimally coupled Tachyon Inflation in Warped String Background	Journal of High Energy Physics (Springer)	2005 02 052	1029-8479

Peer Reviewed Publications in Proceedings of National/International Conference/Workshop/Symposium (Maximum 5)

Authors	Title of the Paper	Name of the Program and Organizer	Publisher Details	ISBN/ISSN
Pranita Das and Atri Deshamukhya	Warm tachyonic inflation in Strong dissipative regime: A study with $\exp[-T^2]$ potential	Physics Academy of North East and Tripura University	2010 Indian Journal Of Physics, Kolkata	0974-9845 (ISSN)
Sumit Basu and Atri Deshamukhya	Gamma distribution in the study of Rain Drop Size Distribution	Mathematical Sciences and their Applications :Recent advances Department of Mathematics, Assam University	2013 Narosa Publishing House, New Delhi	978-81-8487-191-3, (ISBN)
Anindita Bhattacharjee and Atri Deshamukhya	Non-Gaussian signatures arising from warm inflation driven by geometric tachyon	NCHEP, Department of Physics, Gauhati University	2014 J.Phys.Conf.Ser. Vol 481 p 012012 IOPScience	1742-6596 (ISSN)
Utpal Misra, Atri Deshamukhya and Sanjay Sharma	Effect of Atmospheric forcing indices of rainfall anomaly in North East and North West India	Trends in Mathematical Science Research , Department of Mathematics, Assam University	2015 Department of Mathematics, Assam University	978-81-920948-4-8(ISBN)
B Abida Choudhury and Atri Deshamukhya	Study of Trends of Soil Moisture and Precipitation over NE region of India	Trends in Mathematical Science Research , Department of Mathematics, Assam University	2015 Department of Mathematics, Assam University	978-81-920948-4-8(ISBN)

Details of Ph.D degree awarded (Under the supervision of the faculty):

Name of the Scholar	Title of the Thesis	Year of award	Remark (if any)
Anindita Bhattacharjee	A Study of few aspects of String Inspired Cosmology	2015	This column shall contain the department and university in which the Ph.D was carried out and any other relevant information