




## University Faculty Details Page on DU

### Web-site

Title	<b>Dr.</b>	First Name	<b>Swarnendu</b>	Last Name	<b>Sarkar</b>	Photograph
Designation		<b>Assistant Professor</b>				
Department		<b>Physics &amp; Astrophysics</b>				
Address: (Campus)		<b>North Campus, University of Delhi, Delhi - 110 007</b>				
(Residence)		<b>Flat B-4; Teachers' Residential Block - Type II; Mukherjee Nagar; Delhi - 110 009</b>				
Phone No (Campus)						
(Residence)						
Mobile		<b>+919958479657</b>				
Fax						
Email		<b>ssarkar@physics.du.ac.in</b>				
Web-Page						
<b>Education</b>						
Subject		Institution		Year	Details	
<b>Ph.D.</b>		<b>Institute of Mathematical Sciences, Chennai</b>		<b>2005</b>	Thesis topic: Aspects of Noncommutativity in Field and String Theory and Closed String Tachyon Condensation	
<b>M.Sc.</b>		<b>Institute of Mathematical Sciences, Chennai</b>		<b>2001</b>	Subject: Theoretical Physics	
<b>B.Tech.</b>		<b>Indian Institute of Technology, Kharagpur</b>		<b>1997</b>	Subject: Mechanical Engineering	
<b>Career Profile</b>						
Organisation / Institution		Designation		Duration	Role	
<b>IOP, Bhubaneswar</b>		<b>Post Doctoral Fellow</b>		<b>2005-2007</b>	<b>Research</b>	
<b>TIFR, Mumbai</b>		<b>Post Doctoral Fellow</b>		<b>2008</b>	<b>Research</b>	
<b>University of Delhi</b>		<b>Assistant Professor</b>		<b>2008-Present</b>	<b>Teaching and Research</b>	
<b>Research Interests / Specialization</b>						
<b>Quantum Field Theory, String Theory</b>						
<b>Teaching Experience ( Subjects/Courses Taught)</b>						
<b>Classical Mechanics (2010,2011)</b>						
<b>Field Theory and Quantum Electrodynamics I (2012,2013,2014,2017)</b>						
<b>Field Theory and Quantum Electrodynamics II (2013,2014,2015,2018)</b>						
<b>Quantum Mechanics I (2014,2015,2016)</b>						
<b>Radiation Theory (2009, 2010, 2011, 2012, 2013, 2014, 2016,2017,2018)</b>						
<b>Statistical Mechanics (2009)</b>						
<b>Publications (LAST FIVE YEARS)</b>						
<b>In Indexed/ Peer Reviewed Journals</b>						

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author(s)</u>
2014	BCS Instability and Finite Temperature Correction to Tachyon Mass in Intersecting D1-Branes	JHEP 1409 (2014) 063	S. Paul Chowdhury B. Sathiapalan
2014	Proceedings, International Conference on Light-Cone Physics: Hadronic and Particle Physics : New Delhi, India, December 10-15, 2012 (ed)	Nucl.Phys.Proc.Suppl. (251-252) (2014) 1-174	D. S. Kulshreshtha, S. K. Kar, V. Nautiyal, U. Kulshreshtha
2017	Finite Temperature Correction to Tachyon Mass in Intersecting D-Branes	JHEP 1704 (2017) 109	S. Paul Chowdhury V. Sethi
2018	Intersecting D-brane Stacks and Tachyons at Finite Temperature	ArXiv:1801.02059	V. Sethi
2018	Intersecting D3-branes at Finite Temperature	Springer.Proc.Phys.203 (2018) 463-466	S. Paul Chowdhury V. Sethi
2018	A Holographic Description of BCS Instability at Finite Baryon Density	Springer.Proc.Phys.203 (2018) 607-609	S. Paul Chowdhury, S. Kalyana Rama, B. Sathiapalan, N. Sircar

#### Total Publication Profile

[INSPIRE](#) (please see this link)

#### Conference Organization

1. National Strings Meeting (December 7-12 2011), at Dept. of Physics and Astrophysics, University of Delhi. [Web-Page](#)
2. International Conference On Light Cone Physics: "Hadronic and Particle Physics" (December 10-15 2012), at Dept. of Physics and Astrophysics, University of Delhi. [Web-Page](#)