




## 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						
Education						
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			
Career Profile						
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>			
Research Interests / Specialization						
<b>Quantum Field Theory, String Theory</b>						
Teaching Experience ( Subjects/Courses Taught)						
<b>Classical Mechanics (2010,2011)</b> <b>Field Theory and Quantum Electrodynamics I (2012,2013,2014,2017,2018)</b> <b>Field Theory and Quantum Electrodynamics II (2013,2014,2015,2018,2019)</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>Comuter Programming (2017,2018)</b>						

Publications (LAST FIVE YEARS)

In Indexed/ Peer Reviewed Journals

<b>Year of Publication</b>	<b>Title</b>	<b>Journal</b>	<b>Co-Author(s)</b>
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.S 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	Nucl.Phys.B936. (2018) 118-150	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](#)