

**SANJIT KUMAR PAUL**

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■ **CURRENT POSITION:**

Professor of Mathematics, University of Asia Pacific, Dhaka, Bangladesh

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**DATE OF BIRTH** 10<sup>th</sup> April, 1973

**NATIONALITY** Bangladeshi

■ **EDUCATION**

<b>YEAR</b>	<b>DEGREE</b>	<b>FIELD</b>	<b>UNIVERSITY/BOARD</b>	<b>PERFORMANCE</b>
2011	PhD	Physics	Jahangirnagar University, Bangladesh	
1994	M.Sc.	Applied Mathematics	University of Dhaka, Bangladesh	First Class
1993	B.Sc. Hon's	Mathematics	University of Dhaka, Bangladesh	First Class
1990	HSC	Science Group	Comilla Board, Bangladesh	First
Division				
1988	SSC	Science Group	Comilla Board, Bangladesh	First
Division				

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■ **Ph.D THESIS:** ‘Nonlinear Dust-acoustic Waves associated with Charge Fluctuating Positive Dust.

Supervisor: **Dr. A. A. Mamun**, Professor of Physics, Jahangirnagar University

**M.Sc. COURSES:** Fluid Dynamics, Hydrology, Operational Research, Quantum Mechanics

B.Sc. COURSES: Algebra, Co-ordinate Geometry, Calculus, Differential Equations, Linear Algebra, Abstract Algebra

## ■ POSITIONS

- ❖ 17<sup>th</sup> October,2016-Present Professor of Mathematics, University of Asia Pacific
- ❖ 3<sup>rd</sup> April.'2011 -16<sup>th</sup> October,2016 Associate professor of Mathematics, University of Asia Pacific
- ❖ 5<sup>th</sup> Sept.'2004-2<sup>nd</sup> April, 2011 Assistant professor of Mathematics, University of Asia Pacific
- ❖ 3<sup>rd</sup> Oct.'2000-4<sup>th</sup> Sept.2004 Lecturer of Mathematics, University of Asia Pacific,

## ■ RESEARCH

### INTERNATIONAL and NATIONAL WORKSHOP:

- ❖ Workshop on theoretical plasma physics, The Abdus Salam International Centre for theoretical physics (ICTP), Trieste, Italy, and 5<sup>th</sup> July, 2004 -15<sup>th</sup> August, 2004.
- ❖ “Mathematics in the 21<sup>st</sup> Century Bangladesh perspective” Bangladesh Mathematical Society. 25<sup>th</sup> -26<sup>th</sup> December, 2002
- ❖ International Physics Conference (IPS), at Bangladesh University of Engineering and Technology (BUET), Dhaka, 15<sup>th</sup> -17<sup>th</sup> May, 2009

### SCIENTIFIC PRESENTATIONS

1. “On the distribution of temperature in a rotating magnetized fluid” (2002) in the biennial symposium on Physics and Modern Development o at Atomic Energy Centre, Dhaka, Organized by Bangladesh Physical Society. 30<sup>th</sup> -31<sup>st</sup> March, 2002
2. “Nonlinear Dust-acoustic Waves Associated with charge Fluctuating Positive Dust” (2010) organized by Department of Physics, Jahangirnagar University, 20th February, 2010.

3. “Dust-acoustic Shock waves in a Dusty Plasma With Charge Fluctuating Positive Dust” (2011) in the National Conference on Physics for Development at Bangladesh University of Engineering and Technology (BUET) organized by Bangladesh Physical Society, 10<sup>th</sup> -11<sup>th</sup> February’, 2011.
4. National Conference on Physics for Technology Development organized by the Bangladesh Physical Society will be held on Thursday, December 27, 2012 at 10:00 am at the Atomic Energy Centre, Dhaka.
5. “ Effects Charge Fluctuating Positive Dust on Linear Dust –acoustic Waves” (2014)in the 7<sup>th</sup> International Conference on the Physics of Dusty Plasmas(ICPDP) held on 3<sup>rd</sup> March-7<sup>th</sup> March ,2014, New Delhi, India .

## RESEARCH PAPERS & PUBLICATIONS

1. **Sanjit K. Paul**, S.S.Duha, A.K.Banerjee and A. A. Mamun: Electromagnetic waves in partially ionized dusty plasma: Indian J. Physics (India), Vol .No. 78/B, and p.p. 87-92 (2004).
2. S.S.Duha, **Sanjit K. Paul**, A.K.Banerjee and A. A. Mamun: Low frequency electrostatic dust-modes in a warm nonuniform magnetized dusty plasma: Pramana J. Physics (India) , Vol .63. No.5 p.p. 921-936 (2004).
3. **Sanjit K. Paul**, G.Mandal, A.A.Mamun, M.R.Amin : Dust-Acoustic Shock Waves in a Dusty Plasma with Charge Fluctuating Positive Dust: IEEE Transactions on Plasma Science (USA), , Vol 37, Issue 4, p.p. 627-631(2009).
4. **Sanjit K. Paul**, G.Mandal, A.A.Mamun, M.R.Amin : Shock Waves in Plasmas with Charge Fluctuating Dust of Opposite Polarity : Journal Fizik Malaysia(Malaysia) ,Vol 16, p.p. 053704 (2009)
5. M.R.Amin, **Sanjit K. Paul**, G.Mandal, A.A.Mamun : Effects of vortex-like (trapped

electron distribution on non-linear dust-acoustic waves with positive dust charge fluctuation”: J. Plasma Physics, Cambridge university Press (UK), Vol 76, pp. 477-485 (2010).

6. **Sanjit K. Paul** and Muhammad Sajjad Hossain: Shock Waves in Plasmas with Charge Fluctuating Positive and Negative Dust: Journal of Computer and Information Technology (JCIT), Vol 1, pp. 48- 52 (2010)
7. S.S.Duha, A.A. Mamun, M.R.Amin and **Sanjit K. Paul**: Nonplanar effects on solitary waves in adiabatic dusty electronegative plasma: IEEE Transactions on Plasma Science. (USA) Vol 39, Issue 6, Part: 2 (2011).
8. **Sanjit K. Paul** : Shock Waves in Dusty Plasma with Nonthermal Electron Distribution and Charge Fluctuating Positive Dust: Journal of Computer and Information Technology (JCIT), Vol 2, pp. 102- 107 (2011)
9. **Sanjit K. Paul**: Effects of Charge Fluctuating Dust of Opposite Polarity : Journal of Computer and Information Technology (JCIT), Vol 2, Issue 02 , pp. 25- 30 (2012)
10. **Sanjit K. Paul**: Shock waves in dusty plasma with non-thermal ion distribution and charge fluctuating negative dust: Asian Transactions on Science & Technology(ATST),Pakistan, Vol:02, Issue#04,September,2012 pp.25-30.
11. **Sanjit K. Paul** et.al.A Numerical Study on Radiation-conduction Interaction with Steady Streamwise Surface Temperature Variations Over A vertical Cone: Annuals of Pure and Applied Mathematics (APAM),India, Vol:02, Issue#01,2012, ISSN;2279-087X(Print),2279-0888(Online).
12. **Sanjit K. Paul**: Solitary waves in dusty plasma with non-thermal electron distribution and charge fluctuating negative dust: International Journal of Advanced and Innovative Research (IJAIR),India, Vol:02, Issue#01, January, 2013.

13. **Sanjit K.Paul:** Opposite Dust on Linear Dust-acoustic Waves: International Journal of Engineering Research and Development (IJERD), India, Vol:10, Issue#04, April, 2014,pp-53-60.
14. **Sanjit K.Paul:** Effects of Charge Fluctuating on Linear Dust-acoustic Waves: International Journal of Natural and Applied Sciences (IJNAS), India, Vol:02, Issue#02, February, 2015,pp-01-16.
15. **Sanjit K.Paul:** Comparison of DSR,AODV and DSDV Routing Protocols with varying pause time & node density over TCP & CBR Connections in VANET, Sixth International Conference on Computational Intelligence And Communication Networks,2014
16. **Sanjit K.Paul:** Effects of Charge Fluctuating Negative Dust on Linear Dust-acoustic Waves: Journal of Scientific Research in Physical & Mathematical Science, India, Vol:02, Issue#11, 25<sup>th</sup> November, 2015,pp-17-28
17. **Sanjit K.Paul:** Effects of Positive Dust on Non-linear Properties of Ion-acoustic Waves: International Journal of Recent Trends in Engineering & Research India, Vol:03, Issue#04, April, 2017,pp-559-564
18. **Sanjit K.Paul:** Effects of Charge Fluctuating in DA Waves with Non-Thermal electron Distribution and Negative Dust: International Research Journal of Natural and Applied Sciences, India, Vol:04, Issue#6, ISSN;2349-4077 June, 2017, pp-184-196
19. **Sanjit K. Paul:** Pressure-driven Flow Instability with Convective Heat Transfer through a Rotating Curved Square Duct with Strong Curvature: Current Journal of Applied Science and Technology(CJAST),UK,Vol:23(2),ISSN:2231-0843, August 2017, pp-1-18.
20. **Sanjit K. Paul:** Higher(U,M)-Derivatives in Completely Semi Prime  $\Gamma$ -Rings: Journal of Pure and Applied Science and Technology, India ,Vol:8 (2) , July2018, pp-1-8.
21. **Sanjit K. Paul:** MHD free convection heat and mass transfer flow over a vertical porous plate in a rotating system with hall current ,heat source and: International Journal of Advance in Applied Mathematics and Mechanics, India ,Vol:6(1),ISSN:2347-2529, August 2018, pp-49-64.

## PROFESSIONAL MEMBERSHIP

- ❖ Life Member, Bangladesh Mathematical Society, Bangladesh.
- ❖ Life Member, Bangladesh Physical Society, Bangladesh.

## MY ACADEMIC REFEREES

### 1. **Dr. A A Mamun**

Professor,  
Department of Physics,  
Jahangirnagar University,  
Savar, Dhaka-1342, Bangladesh  
Alexander von Humboldt (AvH) Research Awardee (Germany),  
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### 2. **Dr. Ruhul Amin,**

Professor,  
Department of Electronics and Communications Engineering,  
East West University, Dhaka,  
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