

## PRINCIPAL's PROFILE

- 1.Name: Dr. Kalyan Kumar Mondal
- 2.Designation: Principal
- 3.Educational Qualification: M.Sc.(Pure Physics), B.Ed. , Ph.D.
4. Contact Official Email: [principal@smc.edu.in](mailto:principal@smc.edu.in)
5. Department: NA
6. Field of specialization: Electronics
7. Teaching Experience: 40(forty) years [inclusive of five yrs. & 6m in H.S. school]
8. Industrial Experience: Nil
9. Papers published (from award of Ph.D. degree onwards): 17(Seventeen)\*
10. Project Works / **Thesis Guidance**: One scholar has been awarded Ph. D. degree by JU under the joint supervision of Prof. Dr. Basudeb Ghosh, Ex-Professor, dept. of Physics, Jadavpur University and myself. Title of the thesis is: "Linear and Nonlinear Waves in Different Plasma Including Quantum, Relativistic, Gravitation and Streaming Effects"
11. a)Field of research: Theoretical Plasma Physics  
b)Title of the thesis of myself is "On a study of Linear and Nonlinear Wave Propagation in Plasma"
12. Visiting Associate: I was a Visiting Associate at IUCAA (Inter University Centre for Astronomy & Astrophysics) , Pune for the period from July, 2002 to June, 2005,

### **\*a) In various national & international journals**

1. S. N. Paul, **K. K. Mondal** , A. Roychowdhury, Physics Letters A 257(1999), 165-169,
2. **K. K. Mondal**, A. Roychowdhury and S. N. Paul , Indian J. Phys. 74B(6), 475-483(2000),
3. **K. Kr. Mondal**, A. Roychowdhury and S. N. Paul, FIZIKAA (Zagreb)10(2001)1, 31-46,
4. **Kalyan Kr. Mondal**, A. Roychowdhury and S. N. Paul, Physical Review E, Volume 65, 016404,
5. S. K. Bhattacharya and S. N. Paul , **K. K. Mondal**, Physics of Plasmas, Volume 9, Number 11, November 2002,
6. **K. K. Mondal**, Pramana Journal of Physics, Vol. 63, No. 5, November, 2004, pp-1-10,
7. Sarit Moitra, Rajkumar Roychoudhury and **Kalyan Kr. Mondal**, Czechoslovak Journal of Physics, Vol. 55(2005),No. 8

8. **Kalyan Kr. Mondal**, Sujoy Kr. Bhattacharya and Sailendra N. Paul, FIZIKA A 13(2004) 2, 77-88,
9. **K. K. Mondal**, Pramana Journal of Physics, Vol. 69, No. 2, August 2007, pp-241-253,
10. B. GHosh, H. Sahoo, **K. K. Mondal**, J. of Physical and Chemical Sciences, Volume 1, Issue 4, ISSN-2348-327X,
11. B. GHosh, H. Sahoo , **K. K. Mondal**, World Academy of Science, Engineering and Technology, International Journal of Mathematical , Computational, Physical, Electrical and Computer Engineering, Vol. 9, No. 7 , 2015,
12. H. Sahoo, **K. K. Mondal** , B.GHosh, Astrophys. Space Sci(2015)357:26
13. H.Sahoo, B. Ghosh , **K. K. Mondal**, The African Review of Physics(2016) 11:0035,
14. H. Sahoo, **K. K. Mondal** , B. Ghosh, Journal of Physical and Chemical Sciences, Volume 4, UIssue 3, ISSN-2348-327X,
15. Himangshu Sahoo, Basudev Ghosh , **Kalyan Kumar Mondal**, Turk J. Phys. (2017) 41:256-261,
16. H. Sahoo, **K. K. Mondal** and B. Ghosh, Pramana J. Physics(2018) 91:88,
17. H. Sahoo, C. Das, S. Chandra , B. Ghosh and **K. K. Mondal**, IEEE Transactions on Plasma Sciences, Vol. 50, 6, 2022.

#### **b) Seminars / Conferences / Symposia attended**

1. XI National Space Science Symposium (NSSS-2K), Puri, March 1-4,2000,  
Title of the paper presented: Instability of ion-acoustic waves in a relativistic plasma having negative ions by **Mondal K. K.** , Paul S. N.,
2. 15<sup>th</sup> National Symposium on Plasma Science & Technology (PLASMA-2000)  
Saha Institute of Nuclear Physics , 1/A F Bidhanagar, Calcutta-700064(Dec. 5-8, 2000),  
Title of the paper presented: Instability of Ion-Acoustic Waves in Relativistic Multicomponent Plasma by S. N. Paul, **K. K. Mondal** and S. Bhattacharya
3. 16<sup>th</sup> National Symposium on Plasma Science & Technology organized by CPP( Centre of Plasma Physics), Dishpur, Guwahati and PSSI, Dec. 17-20, 2001,  
Title of the paper presented: Charge Dynamics in a Dusty Plasma with Non-Isothermal Electrons by **K. K. Mondal**, S. K. Bhattacharya and S. N. Paul,
4. XII National Space Science Symposium(NSSS-2002), Dept. of Electronics, Barkatullah University, Bhopal-462026( Feb. 25-28, 2002),  
Title of the paper presented: Dust Dynamics In Ionospheric Plasma by **K. K. Mondal**,

5. International Conference on the Frontiers of Plasma Physics and Technology, organized by National Research Institute for Applied Mathematics and UGC-Centre for Advanced Studies in Fluid Mechanics ,Bangalore University, Bangalore, Dec. 9-14, 2002,

Title of the paper presented: Propagation of Dust Acoustic Waves in Weakly Ionised Plasmas with Dust Charge Fluctuation, **K. K. Mondal**,

6. 17<sup>th</sup> National Symposium on Plasma Science and Technology, Dec. 16-19, 2002, Coimbatore, Tamilnadu, organized by the dept. of Physics, Bharthiar University & PSSI,

Title of the paper presented: On the instability of Waves in a Self-Gravitating Dusty Plasma with Fluctuating Dust Charge, **K. K. Mondal**

7. 18<sup>th</sup> National Symposium on Plasma Science & Technology, December 08-11, 2003 organized by Birla Institute of Technology, Mesra, Ranchi & PSSI (Plasma Science Society of India),

Title of the paper presented: i) On the instability of Ion-Acoustic Waves in a Multi-component Plasma with Two Temperature and Non-Isothermal Electrons, S. K. Bhattacharya and **K. K. Mondal**, ii) Higher Order Contribution to Solitary Waves in a Plasma –a General Approach, **K. K. Mondal** & D. Samanta,

8. 19<sup>th</sup> National Symposium on Plasma Science & Technology (PLASMA-2004), Dec. 7-10, 2004 held at Bundelkhand University, Jhansi,

Title of the paper presented: i) Linear Waves in Self-Gravitating Dusty Plasma with Dust Charge Fluctuation, **K.K.Mondal**, ii) Higher Order Solution for Dust Acoustic Solitary Waves in an Unmagnetized Dusty Plasma by Sarit Maitra and Rajkumar Roychoudhury, **Kalyan Kr. Mondal**,

9. 20<sup>th</sup> National Symposium on Plasma Science and Technology (Plasma-2005), December 5-7, 2005 organized by International School of Photonics, CUSAT , Cochin, Kerala and PSSI,

Title of the paper presented: i) Solitary Kinetic Alfven Waves in a Negative-Ion Plasma --- a Pseudo Potential Approach, **K. K. Mondal** and R.K Roychoudhury,ii) Linear Hydromagnetic Waves in Dust-Ion Plasma with Dust Charge Variation,

10.3<sup>rd</sup> International Conference on the Frontiers of Plasma Physics & Technology held at Bangkok, Thailand , March 5-9, 2007,

Title of the paper presented: Electrostatic Waves in a Magnetised Dusty Plasma in Presence of Dust Streaming by **K.K. Mondal**,

11. 29<sup>th</sup> National Symposium on Plasma Science and Technology & International Conference on Plasma and Nanotechnology(PLASMA-2014), 8-11 December, 2014 ,organized by The International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN) & School of Pure and Applied Physics(SPAP), Mahatma Gandhi University, Kottayam- 686 560, Kerala, India & PSSI

Title of the paper presented: Solitary Kinetic Alfven Waves in A Plasma with Negative Ions- H. Sahoo, **K. K. Mondal** and B. Ghosh,

12. 30<sup>th</sup> National Symposium on Plasma Science and Technology, December 1-4, 2015(PLASMA-2015) jointly organized by PSSI and SINP

Title of the paper presented: Effect of Dust Streaming on Electrostatic Waves in Magnetised Plasma, H. Sahoo, B. Ghosh , **K. K. Mondal.**

Dr. Kalyan Kumar Mondal

Principal