

1 a) Name: Dr. Sudeshna Lahiri

b)Qualification: M.Sc. Ph.D

c) Specialisation: Radio Physics and Electronics

c) Research Area: Plasma Physics, Nonlinear Dynamics

d) Field of Interest: Plasma Physics, Nonlinear Dynamics

e)e-mail: sudeshna.lh@gmail.com/ sudeshna_lh@yahoo.co.in

f)Publication:

1. "Anomalous ion temperature in very low q_a discharge of the SINP-tokamak" by R. Pal, P. K. Chattopadhyay, A. N. S. Iyengar, S. Lahiri and N. R. Ray in *Technical Committee meeting on research using small tokamaks, Brazil*, 25 - 26 October, 1993.
2. "Accessibility of very low q_a (VLQ) and ultra low q_a (ULQ) discharges in the SINP tokamak" by S.Lahiri, A.N.S.Iyengar, S.Mukhopadhyay and R.Pal in *Nuclear Fusion*, vol.36, no.2, (1996), 254.
3. "A condition for setting up ultra low q_a discharges in the SINP tokamak" by S.Lahiri, S.Mukhopadhyay, A.N.Sekar Iyengar and R.Pal in *IEEE Transactions on Plasma Science*, vol.25, no.3, (1997) 509.
4. "Runaway electron studies in the startup phase of very low edge safety factor (q_a) (VLQ) discharges in the SINP tokamak" by A.N.Sekar Iyengar, R.Pal, S.Lahiri and S.Mukhopadhyay in *Nuclear Fusion*, vol.38, no.8 (1998) 1177.
5. "A numerical code for solving plasma equilibrium with flows" by Supratik Mukhopadhyay, Sudeshna Lahiri, Paolo Sakanaka and Brahmananda Dasgupta, *Proceeding of International Congress on Plasma Physics* October 23 - 27, 2000, Qubec City, Canada.
6. "Stability Transport Modeling of the SINP tokamak discharges" " by S.Lahiri, S.Mukhopadhyay, A. N. S. Iyengar, R.Pal, Pramana - *Journal of Physics*, vol.56, no.5(2001) 615
7. "Investigations of low q_a discharges in the SINP tokamak" by S.Lahiri, A. N. S. Iyengar, S.Mukhopadhyay, R.Pal, Pramana - *Journal of Physics*, vol. 59, no.1 (2002), 79
8. "Transport and Stability Analysis of low q_a discharges" , S. Lahiri and S. Mukhopadhyay , *ICPP - 02, AIP conference proceedings*, vol 669 (2003) 565.

9. "Effect of equilibrium flow on plasma parameters", S. Mukhopadhyay, S.Lahiri, P. H. Sakanaka and B. Dasgupta, **ICPP-02, AIP conference proceedings**, vol 669 (2003) 585.
 10. "Gottwald-Melbourne (0 – 1) Test for Chaos in a plasma", by D. R. Chowdhury, A.N.S. Iyengar and S. Lahiri, , **Nonlinear Processes in GeoPhysics**, vol. 19, no. 1 (2012) pp 53 – 56.
 11. "Long range temporal correlation in the chaotic oscillations of a dc glow discharge plasma," by S. Lahiri, D. Roychowdhury, and A. N. Sekar Iyengar, **Phys. Plasmas**, vol. 19, 082313 (2012).
- " Chaotic to Quasiperiodic transition in a dc glow discharge plasma," by Sudeshna Lahiri, D. Roychowdhury, and A. N. Sekar Iyengar, Proceedings of 27th **PSSI National Symposium on Plasma Science & Technology Pondicherry University (Plasma=2012)**, Puducherry. December 10 – 13, 2012

g) Awards and Scholarships won

1. University gold medal for being 1st class 1st in B. Sc. Hons (Physics)Examination, The University of Burdwan, 1988.
2. Young Scientist's Award in the 86th Indian Science Congress held at Madras University,Chennai, January 3 – 7, 1999.
3. PSSI best poster presentation award in 21st National Symposium on Plasma Science and Technology at Malaviya National Institute of Technology, Jaipur, Rajasthan, December 19 – 22

h)Membership

1. Life Member of Plasma Science Society of India
2. Life Member of Indian Science Congress Association
3. Life member and EC member of SINP Alumni Association

i) Conference Attended:

• **International Conferences/ Workshops/ Summer school:**

1. "Summer School and Workshop in Academica Sinica", Hefei, China, October, 1993.
2. "2nd Workshop on plasma physics in small devices", Trieste, Italy, October, 1999.
3. "Autumn College in Plasma Physics", Trieste, Italy, October-November, 1999
4. "Alice Collaboration meeting on Dimuon Spectrometer", February, 2000
5. "International Congress on Plasma Physics", July 2002, Sydney, Australia.
6. Indo-Russian Workshop, Complex Network: Dynamics and Synchronization, IICB, Kolkata, India, December 1-2, 2009.
7. "International Symposium on Complex Dynamical Systems and Applications", Digha Science Center, Digha, West Bengal, India, December 4 – 6, 2009.
8. "19th IEEE workshop on Nonlinear Dynamics in Electrostatic Systems", Indian Institute of Chemical Biology and Saha Institute of Nuclear Physics, March 8 – 11, 2011 Kolkata, India.

• **National Conferences/ Workshops/ Summer school:**

1. SERC school on "plasma processing" in Pune University, Pune, May-June 1993.
2. SERC school on "radio frequency heating and current drive" in Saha Institute of Nuclear Physics, Kolkata, May-June 1994.
3. National Conference on Plasma Science and Technology in Baranasi, 1995
4. SERC school on "Magnetic reconnection" in I.P.R. Ahmedabad, December, 1995.
5. National Conference on Plasma Science and Technology in Bhopal, 1996
6. National Conference on Plasma Science and Technology in I.P.R. Ahmedabad, 1997
7. 86th National Science Congress held in Chennai, January 3 - 7, 1999.
8. National Conference on Plasma Science and Technology in Amritsar, 1999
9. National Conference on Plasma Science and Technology in Saha Institute of Nuclear Physics, 2000.

10. National Conference on Plasma Science and Technology in Guwahati, December, 2001
11. Conference on "Women Scientists and Technologists - role in National development" in March 2002, Delhi.
12. 11th International Congress on Plasma Physics, Sydney, Australia, July 15 – 19, 2002.
13. 18th National Symposium on Plasma Science and Technology (PLASMA-2003) held at Birla Institute of Technology, Mesra, Ranchi, December 8 – 11, 2003
14. 19th National Symposium on Plasma Science and Technology (PLASMA-2004) held at Bundelkhand University, Jhansi, December 7-10, 2004
15. 21st National Symposium on Plasma Science and Technology (PLASMA-2006) at Malaviya National Institute of Technology, Jaipur, Rajasthan, December 19 – 22, 2006.
16. 22st National Symposium on Plasma Science and Technology (PLASMA-2007) at Institute for Plasma Research, Bhat, Gandhinagar, Gujrat, December 6 – 10, 2007
17. International Symposium on Complex Dynamical Systems and Applications, Digha Science Center, Digha, West Bengal, India, December 4 – 6, 2009.
18. Condensed Matter Days 2010, at University of Kalyani, Kalyani, August 25- 27, 2010
19. 19th IEEE workshop on Nonlinear Dynamics in Electrostatic Systems, Indian Institute of Chemical Biology and Saha Institute of Nuclear Physics, March 8 – 11, 2011, Kolkata, India.
20. National Plasma Science Symposium, Pondicherry December 10 – 13, 2012, Tamilnadu.
21. 100th national Science Congress, January 3 – 7, 2013, Kolkata, India
22. National Plasma Symposium, KIIT, Bhubaneswar, December, 8 – 11, 2013.
23. 3rd International Conference on Complex Dynamical System and Applications (CDSA-2014), March 10-12, 2014, at ISI Calcutta.