

DR. ANATHNATH GHOSH

Date of Birth: 31.12.1967

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DESIGNATION

Assistant Professor of Physics, Dum Dum Motijheel College, Kolkata-700074.

ACADEMIC BACKGROUND

- Ph.D. (Physics), University of Calcutta, West Bengal, 2001.
- M. Sc. (Physics), University of Calcutta, West Bengal, 1991.
- B. Sc. (Physics), Presidency College (University of Calcutta), West Bengal, 1989.

POSITIONS HELD/ HOLDING

- 2001–Present : Assistant Professor, Dum Dum Motijheel College

TEACHING INTEREST

- Mathematical Physics, E. M. Theory, Classical Mechanics, Quantum Mechanics, Condensed Matter Physics, Astrophysics, Astronomy.

RESEARCH PROFILE

Ph.D. Thesis:

Some Theoretical Studies of the Physical Properties of the Semiperiodic Systems.

Supervisor: Prof. S.N. Karmakar, Saha Institute of Nuclear Physics.

PUBLICATIONS:

Journal Paper:

1. **Ghosh, A.N.** (2017): The Nature of the Expansion of the Universe from the Study of The Gravitational Red-Shift, *International Journal of Academic Research*, 4(1): 109-114.
2. **Ghosh A.N.** (2017), The Newtonian model of the Gravitational Red Shift and the measure of the distances in Cosmology, *International Journal of Advanced Research*, 5 (7): 2554-2560.
3. **Ghosh, A.N.** (2016): The Inspiral time and the orbital decay of the planets of the solar system due to gravitational waves, *International Journal of Advanced Research*, 4(12): 673-678.
4. Biswas K., Basu J., **Ghosh, A.N.** and Giri P. (2016): Study of rhizospheric bacterial population of *Azadirachta indica*(Neem) of North 24 Parganas district of West Bengal for bio-prospective consideration, *International Journal of Experimental Research and Review*, 6: 62-66.
5. **Ghosh, A.N.** (2001): Dynamical Properties of three component Fibonacci quasicrystal. *European Physical Journal*, B21: 45-51.
6. Chattopadhyay, S., **Ghosh, A.N.** and Chakraborty, A. (2001): Frequency dependent response of a Thue-Morse aperiodic lattice, *Physical Review*, B63: 064201-064208.
7. **Ghosh, A.N.** and Karmakar, S.N. (2000): Vibrational Properties of a general aperiodic Thue- Morse lattice: Role of the pseudoinvariant of the trace map. *Physical Review*, B61: 1051-1058.
8. **Ghosh, A.N.** and Karmakar, S.N. (1999): Existence of only delocalised eigenstates in the electronic spectrum of the Thue-Morse lattice, *Physica*, A274: 555-562.
9. **Ghosh, A.N.** and Karmakar, S.N. (1999): Electronic properties of quasiperiodic Fibonacci chain including second-neighbor hopping in the tight-binding model. *European Physical Journal*, B21: 575-582.

10. **Ghosh, A.N.** and Karmakar, S.N. (1998): Trace map of a general aperiodic Thue-Morse chain: electronic properties. *Physical Review*, B58: 2586-2590.
11. **Ghosh, A.N.** and Karmakar, S.N. (1998): *Periodic features in the dynamic structure factor* of the quasiperiodic period-doubling lattice. *Physical Review*, B57: 2834-2840.

NUMBER OF SEMINAR PRESENTATIONS:

- National: **5**

NUMBER OF WORKSHOP/ CAPACITY BUILDING COURSE PARTICIPATIONS:

- International: **1**; National: **10**