



Name: **Dr. Moumita Gupta**
(Joined on February 10, 2021)
Designation: **Assistant Professor**
Specialization: **Condensed Matter Physics**
Qualification: **M.Sc., Ph.D.**
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EMPLOYMENT RECORD (FROM PRESENT TO PAST)

Organisation	Period		Designation	Type of Experience	Nature of Work
	From	To			
Charuchandra College, Kolkata, India	10/02/2021	Onward	Assistant Professor (Physics)	Teaching	Conducting Theory & Laboratory Session
Gangarampur College, Gangarampur, Dakshin Dinajpur, India	07/08/2015	09/02/2021	Assistant Professor (Physics)	Teaching	Conducting Theory & Laboratory Session

FIELD OF SPECIALISATION:

- Condensed Matter Physics
- Atomic and molecular Physics

LIST OF PUBLICATIONS:

- 1. Ground state properties and elementary excitation of ^{85}Rb Bose-Einstein condensate : analytical method for modified Thomas-Fermi model with large gas-parameter, M. Gupta, K. Rai Dastidar, *J. Phys.: Conf. Ser.* **80**, 012038 (2007)**

- 2. An analytical approach for the nonlinear modified Thomas–Fermi equation to derive the ground-state and dynamic properties of a spherically and cylindrically trapped Bose–Einstein condensate, M. Gupta, K. Rai Dastidar, *J. Phys. B: At. Mol. Opt. Phys.* **41**, 195302 (2008)**

- 3. Control of the dynamics of coupled atomic-molecular Bose-Einstein condensates: Modified Gross-Pitaevskii approach- M Gupta and K R Dastidar, *Phys. Rev. A*, **80**, 043618 (2009).**

- 4. Effect of coupling strength on atomic-to-molecular condensate conversion in Raman photoassociation- M Gupta and K R Dastidar, *Phys. Rev. A*, **81**, 033610 (2010).**

- 5. Collective excitations of the hybrid atomic molecular Bose-Einstein condensates- M Gupta and K R Dastidar, *Phys. Rev. A*, **81**, 063631 (2010).**

- 6. Static properties of coupled atomic-molecular Bose-Einstein condensates in modified Gross-Pitaevskii approach- M Gupta and K R Dastidar, *Ind. J. Phys.*, **84**, 961 (2010).**

- 7. Coupled atomic-molecular condensates: role of Raman detuning on the dynamics- M Gupta, *Phys. Scr.*, **87**, 065601 (2013).**

- 8. Momentum-dependent s -wave and d -wave interactions in atomic Bose-Einstein condensates- M Gupta and K R Dastidar, *Phys. Rev. A*, **88**, 033619 (2013).**

CONFERENCES ATTENDED :

1. **7th Asian International Seminar Atomic and Molecular Physics**, Chennai, India, December 4th to 7th, 2006.
2. **Topical Conference on Atomic and Molecular Physics**, Vallabh Vidyanagar, Gujarat, India, Jan 3rd-5th, 2008
3. **International Symposium on Atomic, Molecular and Optical Sciences & High Performance Computing: A Seamless Frontier**, Vedic Village, Kolkata, India, Jan 10th-12th, 2008
4. **DAE-BRNS symposium on atomic, molecular and optical physics (NCAMP XVII)**, New Delhi, Feb 10th- 13th, 2009
5. **Conference on Laser Applications in Basic and in applied sciences**, Visva-Bharati, Shantiniketan, Feb 14th -17th, 2009
6. **One day seminar on recent trends in the research on atomic, molecular and optical (AMO) physics**, IACS, Kolkata, March 17th, 2010
7. **National Conference on Atomic, Molecular and Nano Sciences (NCAMNS - 2019)**, Aliah University, Kolkata, April 3rd and 4th, 2019

PROGRAMME ORGANISED:

- Joint Convener of one day state level seminar on “*Recent Trends in Science*” on March 19, 2019 at Gangarampur College, Gangarampur, Dakshin Dinajpur.