

Name: Dr. Dipti Munjal

Designation : Assistant Professor

Qualification: M.Sc. (Physics), NET, PhD.

Area of Specialization : Study of confined systems under external fields, information entropic measures



Teaching Experience: (Approx. 9 years)

1. Two years (approx.) as Assistant professor in Engineering college (from Sept. 2006 to Sept. 2008)
2. Four years (approx.) as Assistant professor (ad hoc) in colleges of University of Delhi. (from Sept. 2008 to Jan. 2013 & Sept. 2014 to May 2015)

Research Experience: (Approx. 3 years)

- Three years research experience as Women Scientist under Women Scientist fellowship from Department of Science and Technology, India from May 2015-May 2018 at Swami Shraddhanad College, University of Delhi.

Courses Taught

M.Sc. (Physics)

- Electronics
- Atomic and Molecular Physics

B. Sc. (Hons.)

- Electronics

B. Sc.

- Electronics

Awards and Distinction

- Women Scientist fellowship from Department of Science and Technology, India from May 2015-May 2018

Publications :

1. B Dhayia, D Munjal and V Prasad, 'Ionization and population transfer in Lithium Rydberg states with ultra short chirped laser pulses', Ind. J. Phys. 85, 1721(2011).
2. S. Lumb, S. Lumb, D. Munjal and V. Prasad 'Intense field induced excitation and ionization of an atom confined in a dense quantum plasma', Phys. Scr. 90, 095603(2015).
3. D Munjal, V Prasad, 'Spectra of electron pair under harmonic and Debye potential', Contribution in plasma Physics 57, 76(2017).

4. D Munjal, K D Sen, V Prasad, 'Two particle system in spherically confined plasma environment', D Munjal, K D Sen, V Prasad, Eur. Phys. J. D 71, 59(2017).
5. D Munjal, P.Silotia and V Prasad, 'Spectra of confined Positronium', Phys. Plasmas 24, 122118 (2017).
6. D. Munjal, K. D. Sen and V. Prasad, 'Shape effect on information theoretic measures of quantum heterostructures', J. Phys. Commun. 2(2018) 025002.
7. D. Munjal, B.Vidhani and V.Prasad, 'Positronium under harmonic and plasma confinement', AIP Conference Preceedings, 1953, 140040(2018).
8. V. Nautiyal, D. Munjal, P.Silotia, Spin orbit effect in a quantum dot confined in a Kratzer potential, J. Magnetism & Magnetic Materials, 528, 167688(2021).

List of papers presented in conferences/workshops/seminars

1. Oral presentation on Photoionization of hydrogenic impurity in spherical quantum dot in presence of Gaussian potential, at National conference on Recent Advances in Materials and Field Theory NCRAMFT- 2K15, ISBN: 978-93-5254-054-9
2. Poster presentation on Positronium under harmonic and plasma confinement, 2nd International Conference on Condensed Matter and Applied Physics (ICC-2017).
3. Poster presentation on Positronium under harmonic and plasma confinement',
4. Poster presentation on 'Optical response of Positronium under soft confinement', International conference on Condensed Matter and Applied Physics (ICC-2017).
5. International Conference on Physics, Society and Technology-2019, Deshbandhu College, University of Delhi, Delhi.

Conferences/ Seminars/ Symposium/Workshops/Lectures/Webinar Attended:

1. National symposium "Indian Physics and Mega projects" organized by Miranda House, University of Delhi on 2-3 Feb. 2009.
2. National conference "Advances in atomic, molecular and nuclear physics" organized by M.M.H college, Ghaziabad. 2009 to 7 Nov. 2009.
3. Indian International Science festival organized by IIT Delhi from 4 Dec 2015 to 8 Dec. 2015.
4. National conference on Recent Advances in Materials and Field Theory NCRAMFT-2K15 organized by Bhagwan Parshuram Institute of Technology, Delhi on 28-29 Dec 2015.
5. International conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity organized by University of Delhi on Nov. 7-11, 2016.
6. International conference on Condensed Matter and Applied Physics (ICC-2017) organized by Govt. Engineering college, Bikaner on Nov. 24-25, 2017.
7. International conference on Physics, Society and Technology-2019, organized by Deshbandhu College, University of Delhi, Delhi on Jan. 17-19, 2019.
8. One day National seminar on "Recent trends in interactive science: A path to global expansion" organized by PGGCG-11, Chandigarh on 5 Nov. 2019
9. Webinar on "Awareness Programme on understanding and promoting mental health" organized by PGGCG-11, Chandigarh on 12 May 2020.

10. Webinar on Science, Society and Exponential change: Reimagining the future"
Organized by Department of physics, Kalindi College, University of delhi On 13 May 2020.
11. Webinar Lecture series on "From health to hapiness" organized by Amity University, Noida on 17th may 2020.
12. Webinar on "Covid-19" organized by Ch. Devilal College of Pharmacy, Jagadhri on 23 May 2020.
13. Webinar on "Arts and Science of mentoring" Organized by Physics Department Daulat ram College, University of Delhi on 1 June 2020.
14. Online Lecture on "Light and Einstein's $E=mc^2$ " organized by National association of Physics Teachers on 20 June 2020.
15. Online Lecture on "The mass of small things" organized by National association of Physics Teachers on 24th July 2021.
16. National e-seminar on "Application od computational Quantum Chemistry and Molecular Docking" on 16 April 2022.