

**Faculty Profile
2018-2023**

1. Personal Details:

Name: MAHADEB PAL

Qualification: PhD

Designation: Assistant Professor

Department: Physics

Email id: mpal.phy100@gmail.com

Teaching Experience [substantive post only]: 7 years

2. Previous work places: Assistant Teacher (West Bengal Govt. aided school); 2007-2015.

3. Academic Credentials:

- **B.Sc. in Physics from Burdwan University (2006)**
- **M.Sc. in Physics from Jadavpur University (2008)**
- **B. Ed from NSOU**
- **PhD from NIT Durgapur (2023)**

4. Courses Taught: Physics

5. Administrative Experience (if any):

6. Specialization and Research Interests: Nuclear structure and astro nuclear physics

7. Publications: (Research article, General article, Books, Books chapter etc.)

Sl No.	Title of Publication	International/national/state	Publishing Agency or Journal Name	Year	Volume	Page	ISBN/ISSN/DOI
1.	Neutron skin thickness of finite nuclei with finite range effective interaction in droplet model.	International	<i>International Journal of Modern Physics E</i>	2018	27	490-507	doi.org/10.1142/S0218301318500490
2.	Correlation of Neutron Skin Thickness with Symmetry energy and symmetry energy coefficient.	National	<i>DIATM, Durgapur, India.</i>	2018	5	51-53	-
3.	The fourth order symmetry	International	<i>International Journal of</i>	2019	28	228-240	doi.org/10.1142/S0218301319500228

	energy of nuclear matter and symmetry energy coefficients of finite nuclei using extended semi-empirical mass formula.		<i>Modern Physics E</i>				
4.	Study the correlation of nuclear symmetry energy, slope parameter and curvature with finite range effective interaction.	National	<i>DIATM, Durgapur, India.</i>	2019	6	51-53	
5.	Study of neutron star radius with skin thickness and slope parameter by using finite range effective interaction.	International	DAE, Govt. of India	2019	64	138	-
6.	Study of transition density by simple range effective interaction.	National	<i>AMU, Aligarh</i>	2020	-	38	-
7.	Theoretical study of the role of symmetry energy as well as its density slope and curvature on core crust transition density using finite range effective interaction.	International	<i>Physics of Particles and Nuclei Letters.</i>	2022	19	97-107	doi.org/10.1134/S154747712202008X
8.	The correlation	International	RED'SHINE PUBLICATION,	2023	3	25-29	ISBN: 978-91-89764-19-4

between nuclear symmetry energy and symmetry energy parameters using finite range effective interaction.		SWEDEN.				
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8. Patents (if any): NA

9. Research Project (if any): NA

10. Research Supervision (Ph.D./M.Phil.) NA

11. Seminar/Workshop participated:

Sl No.	Title	Date	Organized by	Place
1.	V th Recent Trends in Applied Sciences and Humanities	10-12 April, 2018.	DIATM Durgapur, India.	Durgapur, India.
2.	VI th Recent Trends in Applied Sciences and Humanities	16-17 March, 2019.	DIATM Durgapur, India.	Durgapur, India.
3.	64 DAE-BRNS Symposium on nuclear Physics.	23-27 December, 2019.	DAE, Govt. of India.	Lucknow.
4.	Centenary celebration conference on nuclear structure and nuclear reactions,	2-4 March	Aligarh Muslim University.	Aligarh.

12. Programmes Conducted / Organised as Convenor / Organising Secretary etc. : NA

Serial No._Name of the Programme_ Sponsored By_Date

13. Achievements/Awards/Membership: NA

14. Any Other Relevant Information: NA