

## BIO DATA

Name: Dr. Mahesh Kumar

Designation: Assistant Professor

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Area of Specialisation: Theoretical Nuclear Physics

Academic Qualifications: M.Sc.(Physics), M. Phil.(Physics), Ph.D.

Teaching/ Research Experience (in years): 15 Years

### Research Publications:

Research Papers: 11

General Articles: Nil

Books: Nil

Book Chapters: Nil

### Top Five Publications:

1. **Mahesh K. Sharma** and **S. K. Patra**

*"Nuclear reaction cross section from a simple effective density using Glauber model"* PHYSICAL REVIEW C 87, 044606 (2013).

2. **R. N. Panda**, **Mahesh K. Sharma** and **S. K. Patra**

*"Nuclear structure and reaction properties of Ne, Mg and Si isotopes with RMF densities"* Modern Physics Letter A Vol. 29 No 4 1450013 (2014).

3. **Mahesh K. Sharma**, **R. N. Panda**, **Manoj K. Sharma** and **S. K. Patra**

*"Nuclear Structure study of some bubble nuclei in light mass region using mean field formalism"* Chinese phys. C. Vol 39 (2015) 064102.

4. **Mahesh K. Sharma, R. N. Panda, Manoj K. Sharma and S. K. Patra**  
“Search of  $^{37}\text{Mg}$  halo Structure using Glauber model and microscopic relativistic mean field densities” PRC 93, 014322 (2016).
5. **R. N. Panda, M. Panigrahi, Mahesh K. Sharma, and S. K. Patra**  
“Evidence of a Proton Halo in  $^{23}\text{Al}$ : a Mean Field Analysis” *Physics of Atomic Nuclei*, 2018, Vol. 81, No. 4, pp. 440–451.

**No. Of Papers presented in seminar/conferences: 12**

**Research Guidance:**

M. Phil:- Nil

Ph.D:- Nil

**Academic Achievements/Awards/ Recognition:**

- 1) Delivered a lecture on topic of '*Interference and Diffraction*' at Army public school organized for 'In service teachers training workshop' as a resource person.
- 2) Attended five days workshop on "*EXFOR Compilation of Nuclear Data*" sponsored by BARC held at Physics department Panjab University, Chandigarh.
- 3) Attended a Faculty Induction Program (FIP-04) from 02/03/2021 to 29/03/2021 Organized by HRDC, Guru Nanak Dev University, Amritsar, Punjab.
- 4) Attended One day workshop on "*Unfolding in Vedic Mathematics*" Organized by Punjab Technical University, Jalandhar.
- 5) Received an **Award of Excellence** on 5<sup>th</sup> Sep, 2013 from Chandigarh Group of Colleges, Landran, Mohali, Punjab.
- 6) Achieved **Best Poster award** at National conference AMRP-2015

**Membership of Professional Bodies/Organisations:**

1. **Member of board of study for duration 2020-2023 at Mata Gujri College (An Autonomous College), Fatehgarh Sahib.**