



## Personal profile

**Name of the Faculty:** Dr. Bhupali Sharma

**Designation:** Assistant Professor (Stage III)

Personal Information      Date of Birth: 01–05–1975  
                                Gender: Female

Nationality: Indian

**Address for correspondence:**

Department of Physics  
Arya Vidyapeeth College,  
Guwahati – 781 016  
Dist: Kamrup (M),

**Permanent Address:**

H.No.- 2  
Zoo-Japorigog Road  
Guwahati – 781 005  
Dist: Kamrup (M)

e-mail ID : bhupalisharma@gmail.com  
Contact no.: 09859137480

Date of joining the present service: 24–04–2008

Academic Qualification      M.Sc, Ph. D., B. Ed. , NET(LS)

Qualification

Teaching Experience      In UG level: 12+ Years

Experience      In PG level: Taken few classes for PG(Chem) in Arya Vidyapeeth College as guest faculty

Academic distinction      i) National / State merit Scholarship in HSLC exam.  
                                  ii) Distinction in B.Sc. exam



Research Date of obtaining / PhD Degree: 30–12–2006, Jamia Millia Islamia Central  
Experience University, New Delhi.

Title of the PhD thesis:

“QUANTUM MONTE CARLO CALCULATIONS OF s-shell  $\Lambda\Lambda$  HYPERNUCLEI”

Length of research experience: 13+ Years

Specialization (Area of interest): Theoretical Nuclear Physics, Particle Physics,  
No. Of research projects:

Title of the project	Funding agency	Amount (in Rs)	Status (ongoing/completed)
Role of $\Lambda N$ and $\Lambda NN$ interaction parameters on light single lambda hypernuclei (No. F 5-92/2011-12/MRP/NERO/0729 )	UGC	1,35,000/-	Completed in 2014

Publications

**No. Of Book chapters published: 01**

- i) Few body Study for s-shell Hypernuclei, Advances in Nuclear Physics and Condensed Matter, Eastern Publishers, India, ISBN 978-93-88881-20-3, 45-50 (2020).

**No. Of Research paper published: 04**

- i) Role of  $\Lambda N$  and  $\Lambda NN$  interaction parameters on binding energy of  ${}^4\Lambda H$  and  ${}^4\Lambda H^*$ , Journal of Applied and Fundamental Sciences , 34-37, Vol 5 (1), ISSN 2395-5554 (Print) ISSN 2395-5562 (Online) (2019)
- ii) “ Variational Monte-Carlo study of  ${}^4\Lambda H$ ”, Bhupali Sharma, Chin. Phys. Lett., Vol 30, No 3, 032101(2013)
- iii) “ Stability of  ${}^4\Lambda H$  with Nijmegen soft-core potential”, Bhupali Sharma, Horizon,-a Journal of Physics, Vol 2., 14-18, ISSN 2250-0871, (2012)

- iv) “Six body variational Monte carlo study of  $^{AA}\Lambda\Lambda He$ ”, Q.N. Usmani, A.R. Bodmer, Bhupali Sharma, Phys. Rev. C 70, 061001(R) (2004)..

#### **Publications in Conference Proceedings: 01**

- i) “Variational study of light hypernuclei”, Bhupali Sharma, Conference Proceedings of Xth Biennial Conference of Physics Academy of North East (ISBN NO 978-93-86256-85-0) (2017).

Papers  
presented in  
Seminar/  
Conference

- . .
- i) “Variational study of s-shell lambda hypernuclear systems” in Trends in Modern Physics 2020 (24th – 25th February, 2020) at Assam Don Bosco University, Guwahati.
- ii) “E-waste management and Green Computing : A Green Technology” in Second International Conference on Advances in Electrical, Electronic and System Engineering (2-3 November, 2019) at Gauhati University.
- iii) “Role of  $\Lambda N$  and  $\Lambda NN$  interaction parameters on binding energy of  $^4H$  and  $^4H^*$  ” in Trends in Modern Physics 2019 (22nd -23rd February, 2019) at Assam Don Bosco University, Guwahati.
- iv) “Few-body study for s-shell Hypernuclei” in National Conference on Materials, Condensed Matter & Theoretical Physics (20th -21st December, 2018) at ADP College, Nagoan, Assam.
- v) . “ Effect of of  $\Lambda N$  and  $\Lambda NN$  interaction parameters on stability of light single lambda hypernuclei” at National Seminar on “Socio-economic and Scientific Development in Northeast India: Problems and Prospects” at Arya Vidyapeeth College, Guwahati on 27-28th October, 2017.
- vi) “Variational study of light hypernuclei” in Xth Biennial Conference of Physics Academy of North East on “Recent Advances in Physics Research and its Relevance” at St. Anthony’s College, Shillong on 10th-12th November, 2016.
- vii) “Role of  $\Lambda N$  and  $\Lambda NN$  interaction parameters on light single lambda hypernucei” at 59th Annual Technical Session of ASS at Cotton College, Guwahati on 29th March 2014.
- viii) “Search for stable  $^{AA}\Lambda\Lambda H$  “ in National conference on Theoretical Physics at TU on 8-12 Feb,2013.
- ix) “Existence of light double lambda hypernuclei” in National Seminar on

Frontiers in Science and Technology(58th Annual Technical Session of ASS) at GU on 8-9 March,2013.

x) “ Stability of  $^{AA}H$  with Nijmegen soft-core potential” in National seminar on new frontiers in Physics at GU on 11th May, 2012.

xi) “Variational Monte-Carlo study of  $^{AA}H$ “ in 57th Annual Technical Session of ASS at GU on 16th March, 2012.

xii) “Variational Monte-Carlo study of  $^{AA}H$ “ in XXXIV ISSC in the research committee (Physical and Chemical Sciences) at GU on 27th 31st Dec, 2010.

Linkage with i) Jamia Millia Islamia Central University, New Delhi.

other institution

(research

collaboration)

Membership i) Life member of “Physics Academy of North-East”.

in reputed ii) Life member of “Indian association of Physics Teachers”..

national/

international

agency

\*\*\*