



Arya Vidyapeeth College
আর্য্য বিদ্যাপীঠ মহাবিদ্যালয়



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,

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

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

Teaching Experience In UG level: 12+ Years

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) Distiction in B.Sc. exam



Research
Experience

Date of obtaining / PhD Degree: 30–12–2006, Jamia Millia Islamia Central
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 ΛN and ΛNN 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 ΛN and ΛNN interaction parameters on binding energy of ${}^{\Lambda}H$ and ${}^{\Lambda}H^*$, 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 ${}^{\Lambda\Lambda}H$ “, Bhupali Sharma, Chin. Phys. Lett., Vol 30, No 3, 032101(2013)

iii) “ Stability of ${}^{\Lambda\Lambda}H$ 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 ${}_{\Lambda\Lambda}{}^6\text{He}$ ”, 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 ΛN and ΛNN interaction parameters on binding energy of ${}_{\Lambda}{}^4\text{H}$ and ${}_{\Lambda}{}^4\text{H}^*$ ” 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 ΛN and ΛNN 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 ΛN and ΛNN 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 ${}_{\Lambda\Lambda}{}^4\text{H}$ “ 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 ${}^{\Lambda\Lambda}{}^4H$ 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 ${}^{\Lambda\Lambda}{}^4H$ “ in 57th Annual Technical Session of ASS at GU on 16th March, 2012.

xii) “Variational Monte-Carlo study of ${}^{\Lambda\Lambda}{}^5H$ “ in XXXIV ISSC in the research committee (Physical and Chemical Sciences) at GU on 27th 31st Dec, 2010.

Linkage with
other institution
(research
collaboration)

i) Jamia Millia Islamia Central University, New Delhi.

Membership
in reputed
national/
international
agency

i) Life member of “Physics Academy of North-East”.
ii) Life member of “Indian association of Physics Teachers”..
