

Curriculum vitae

Personal profile:

Name Shashi Shekher Tiwary
Father's Name Chandra Bhushan Tiwary
DOB 12th March, 1990
Current affiliation Institute Postdoctoral fellow,
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Mailing Address: Department of Physics, Institute of Science,
Banaras Hindu University, Varanasi, 221005, India.

Current Position:

(From January 2022 - present date): Institute Postdoctoral fellow at Indian Institute of Technology, Roorkee.

Educational Qualifications:

| Year of passing | Class | Board | School | % |
|------------------------|---------------|----------------------------|-------------------|----------|
| 2005 | Matriculation | Jharkhand Academic Council | S S High School | 76.0 |
| 2007 | Intermediate | Jharkhand Academic Council | BSL+2 High School | 64.8 |
| 2011 | B.Sc.(Hons.) | Banaras Hindu University | Physics | 73.8 |
| 2013 | M.Sc. | Banaras Hindu University | Physics | 67.4 |

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|-----------|-----|--------------------------|---------|----|
| 2013-2021 | PhD | Banaras Hindu University | Physics | NA |
|-----------|-----|--------------------------|---------|----|

Qualified National Level Examinations:

Graduate Aptitude Test in Engineering (2013)
Junior Research Fellow (CSIR-UGC-NET-JRF, All India Rank -0086, 2013)

Awards:

CSIR-UGC Junior Research Fellow (2013-2015)
CSIR-UGC Senior Research Fellow (2015-2018)
Best poster in International Conference on Nuclear Physics with Energetic Heavy Ion Beam, held on 15-18 March [2017], Department of Physics, Punjab University, Chandigarh

Research Experience:

Research Area of Interest: Experimental Nuclear Physics, In beam γ -ray spectroscopy, Nuclear Astrophysics

Dissertation Topic in Master Degree: Systematic of low lying states of Te-nuclei

Ph.D. Thesis Title: In-Beam γ -ray spectroscopy of transitional nuclei

Course modules: i) Detectors and transducers, ii) Applications of accelerators, iii) Engineering Drawing

Nuclear Theoretical Models:

Liquid drop model, Shell Model (NuShellX), Total-Routhian-Surface (TRS), Semi-classical model

Data Analysis softwares packages: INGA-Sort, Radware, Candle, ROOT (basic)

Detector handling and operation:

Gamma detector : Clover HPGe, Single crystal HPGe, LaBr₃, LEPS, NaI, BaF₂.
 Charged particle detector : Silicon detector, CsI.

Computer Proficiency:

Operating system- WINDOWS, LINUX

Programming Languages- FORTRAN 77, C, C++, Python (Basic)

A brief of research work

Investigation of the structural behaviour of nuclei: I have investigated very specific properties of rotational nuclei, includes, the evolution of the shell structure and exotic nuclear shapes in $A = 120-140$ mass region. The nuclei belong to this mass region are showing the transitional behaviour, due to which various exotic modes of nuclear excitation, like, magnetic rotation, anti-magnetic rotation, wobbling motion, tidal motion, chiral rotation, etc., and also provides the evidence of several interesting structural phenomena, like back-bending, shape coexistence, signature splitting, etc., were reported in this mass region. I was focused to study the evolution of various shapes and phases as the function of β - and γ -deformations. To solve the purpose, I have chosen even-even tellurium isotopes near $Z = 50$ proton shell closure and ^{139}Pm near $N=82$ neutron shell closure.

In even-even tellurium isotopes, the in-beam spectroscopy study for $^{124-128}\text{Te}$ have been carried out and the structure has been discussed under the framework of various theoretical models. Based on deformation-energy curves, obtained from the calculation, with respect to axial and non-axial quadrupole deformations, the shape instabilities are evaluated in detail and predicted, particularly in the γ -direction. Such instabilities are also supported by the odd- and even-spin level staggering of the observed quasi- γ -bands, which is usually used to distinguish between γ -rigid and γ -soft asymmetry. Further, the investigation leads to the presence of E(5)-critical point symmetry in ^{124}Te .

In ^{139}Pm , the investigation for the wobbling excitation at low spin has been carried out and the transverse wobblers bands have been identified in this nucleus. As, the wobbling excitation is considered as the fingerprint of stable triaxiality, So role of high-j quasiparticle for the evolution of stable triaxiality has been also investigated.

Installation of the experimental setup: Through the period, I have got training for the installation of the basic detection setup for γ -ray spectroscopy. I have used Indian National Gamma Array (INGA) facility, installed at Inter-university accelerator center (IUAC), New Delhi, for the in-beam experiments. I have learned the techniques for signal processing, Compton suppression, Addback of Compton scattered γ -rays, calibration of energy and timing signals during the in-beam experimental run.

Experimental Analysis techniques: During the thesis period, I got training for various experimental techniques used in γ -ray spectroscopy, as listed below, γ - γ -Coincidence measurement, formation of symmetric and asymmetric matrices, cube formation and analysis, γ -gated matrix, angular distribution, angular correlation, linear polarization and polarization sensitivity measurements.

Fabrication of thin-film target: Thin-film targets (with or without backing) are commonly used in the field of nuclear spectroscopy. For the proposed experiment of my PhD thesis, I have also

got training for the fabrication of a hygroscopic thin-film target on gold and lead backing at the target lab of IUAC, New Delhi. I have used the RBS and XRF-setup for the characterization of the prepared targets.

Nuclear Theoretical models: During my thesis work I have got training for theoretical models like **Nuclear Shell model** using NuShellX and **Total routhian surface (TRS)** calculation. These theoretical frameworks are important to interpret experimental results and useful to understand the collective and non-collective behaviour of a nucleus.

The collective and non-collective excitations of nearly spherical even-even $^{104-114,126,128}\text{Te}$ nuclei was interpreted with shell model calculation. The calculation was carried using the **NuShellX@MSU** code, with un-normalized two-body effective interactions based on Bonn free N-N potential.

Based on the results obtained from TRS-calculation, our research group are successfully able to interpret the presence of γ - softness in ground states and multi-pair nucleon alignments and their competition in high spin states of $^{124,126}\text{Te}$, $^{126,127}\text{Xe}$ and $^{126,127}\text{I}$.

Other theoretical models like PRM, TPRM, TPSM, etc, were also used to interpret the experimental results of above-mentioned nuclei.

Participation in on-line in-beam Experiments

| <i>Date</i> | <i>Details of the experiment</i> | <i>Principal investigator</i> | <i>Performed at</i> |
|-------------|---|-------------------------------|---------------------|
| July, 2014 | Lifetime measurement of ^{188}Pt using GDA. | Dr S K Chamoli [DU] | IUAC, New Delhi |
| July, 2016 | High Spin States of ^{127}Xe | Mr S Chakraborty [BHU] | IUAC, New Delhi |
| Aug, 2016 | Transverse Wobbling in ^{103}Pd | Prof U Garg [NDU, USA] | IUAC, New Delhi |
| Aug, 2016 | Spectroscopy of $^{90-92}\text{Zr}$ | Dr R Palit [TIFR] | IUAC, New Delhi |
| Oct, 2016 | Lifetime Measurement in ^{139}Pm | Prof H P Sharma [BHU] | IUAC, New Delhi |
| Dec, 2016 | In-Beam γ -ray Spectroscopy of $^{110-111}\text{Sn}$ and $^{110-111}\text{In}$ | Mr C K Gupta [DU] | IUAC, New Delhi |
| Aug, 2017 | Wobbling motion in $^{139-141}\text{Eu}$ | Dr R Palit [TIFR] | TIFR, Mumbai |
| Nov, 2018 | High Spin States of ^{135}Ce | Mr S S Tiwary [BHU] | IUAC, New Delhi |
| Dec, 2018 | High Spin States of ^{183}Ir | Mrs A Sharma [HPU] | IUAC, New Delhi |
| Jan, 2019 | High Spin States of ^{145}Gd | Ms C Majumder [BHU] | IUAC, New Delhi |

Teaching assistance:

- Teaching assistance for under graduate students from 2014-2016 at Department of Physics, Banaras Hindu University.
- Tutorial assistance for offline data reduction for γ -ray spectroscopy' in DST SERC school, 2017.

Referees for recommendation of work:

H. P. Sharma (Ph.D. Supervisor)

Professor

Department of Physics

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BHU Varanasi

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Dr. S. Muralithar

Scientist H

Inter University Accelerator Centre

(Formerly known as Nuclear Science Centre)

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New Delhi - 110067, India

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Dr. R. P. Singh

Scientist - H

IUAC, New Delhi

Ph. +91 9868202784, 011-26893955, 011-26892603 (Ex-334)

email: rps_inuk@yahoo.com

Publications:

Peer reviewed journals:

- **Observation of quasi- γ -bands in Te nuclei**
S. S. Tiwary, H P Sharma, S Chakraborty, C Majumder, P K Prajapati, P Banerjee, S Ganguly, S Rai, P Popli, M Singh, S S Battacharjee, R P Singh, S Muralithar, A Kumar and S Kumar
The European Physical Journal A 55(9), 163 (2019);
- **Fabrication of isotopic ^{127}I target from potassium iodide for heavy ion nuclear reactions**
S. S. Tiwary, H.P. Sharma, S. Chakraborty, C. Majumder, Gurjot Singh, D. Mehta, S. Kumar, S.R. Abhilash, D. Kabiraj, R.P. Singh and S. Muralithar
Vacuum 167, 336–339, (2019)
- **Positive parity structure of ^{139}Pm**
S. S. Tiwary, H.P. Sharma, S. Chakraborty, C. Majumder, et. al.
Physica Scripta 95, 9. 095304 (2020)
- **Transverse wobbling in ^{139}Pm**
S. S. Tiwary, H.P. Sharma, S. Chakraborty, C. Majumder, et. al.
Ready to be communicated
- **Level scheme of ^{124}Te**
S. S. Tiwary, H P Sharma, S Chakraborty, C Majumder, P K Prajapati, P Banerjee, S Ganguly, S Rai, P Popli, M Singh, S S Battacharjee, R P Singh, S Muralithar, A Kumar and S Kumar
Ready to be communicated

Other collaborative works

- **New lifetime measurement for the 2^{+1} level in ^{112}Sn by the Doppler-shift attenuation method**
A. Kundu, Md. S. R. Laskar, R. Palit, R. Raut, S. Santra, N. Shimizu, T. Togashi, E. Ideguchi, H. Pai, S. Ali, F. S. Babra, R. Banik, Soumik Bhattacharya, S. Biswas, Biswajit Das, P. Dey, R. Donthi, A. Goswami, S. Jadhav, G. Mukherjee, B. S. Naidu, S. Rajbanshi, L. P. Singh, H. P. Sharma, S. S. Tiwary, and A. T. Vazhappilly
PHYSICAL REVIEW C 103, 034315 (2021)
- **Evidence of antimagnetic rotational motion in ^{103}Pd**
A. Sharma, R. Raut, S. Muralithar, R. P. Singh, S. S. Bhattacharjee, S. Das, S. Samanta, S. S. Ghugre, R. Palit, S. Jehangir, N. Rather, G. H. Bhat, J. A. Sheikh, S. S. Tiwary, Neelam, P. V. Madhusudhana Rao, U. Garg, and S. K. Dhiman
Phys. Rev. C 103, 024324 (2021)
- **Multiphonon longitudinal wobbling in ^{127}Xe**

S. Chakraborty, H. P. Sharma, **S. S. Tiwary**, C. Majumder, A. K. Gupta, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, A. Kumar, R. Palit, S.S. Bhattacharjee, R. P. Singh, and S. Muralithar

Physics Letters B **811** (2020) 135854

- **Indication of γ -vibration in $^{123,125,127}\text{I}$**

S. Chakraborty, H. P. Sharma, **S. S. Tiwary**, C. Majumder, P. Banerjee, S. Ganguly, S. Kumar, A. Kumar, A. Kumar, R. P. Singh, and S. Muralithar

Journal of Physics G: Nuclear and Particle Physics **47**, 9, 095104, (2020)

- **Signature splitting in the positive parity bands of ^{127}Xe**

S. Chakraborty, H. P. Sharma, **S. S. Tiwary**, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar, A. Kumar, and R. Palit

The European Physical Journal A **56** (2), 1-8, (2020)

- **Possible antimagnetic rotational band in ^{127}Xe**

S. Chakraborty, H. P. Sharma, **S. S. Tiwary**, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar, A. Kumar, and R. Palit

Journal of Physics G: Nuclear and Particle Physics **47** (1), 015103, (2020)

- **Lifetime measurements in ^{104}Pd**

C Majumder, H P Sharma, S Chakraborty, S S Tiwary, R P Singh, S Muralithar, Indu Bala, S S Bhattacharjee, R Garg, Neelam, A Sharma, and P V Madhusudhana Rao

Journal of Physics G: Nuclear and Particle Physics **47** (12), 125104, (2020)

- **MAGNETIC ROTATION IN ^{60}Ni : A SEMICLASSICAL DESCRIPTION**

S Ganguly, C Majumder, SS Tiwary, HP Sharma, S Chakraborty

Acta Physica Polonica B **51** (2), 473 (2020)

- **γ -vibration in ^{126}Xe : A revisit**

S. Chakraborty, H. P. Sharma, **S. S. Tiwary**, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar, A. Kumar, and R. Palit

Nuclear Physics A, 121687, (2019)

- **Possible Antimagnetic Rotational Band in ^{102}Ru**

C. Majumder, H. P. Sharma, S. Chakraborty and S. S. Tiwary
Brazilian Journal of Physics 49 (4), 539-542, (2019)

- **Search for the $23/2^+$ isomeric state in ^{125}Te**

S. Chakraborty, H. P. Sharma, S. S. Tiwary, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar, A. Kumar, and R. Palit
EPL (Europhysics Letters) 125 (5), 52001, (2019)

- **γ -vibration in ^{198}Hg**

S. Chakraborty, H. P. Sharma, S. S. Tiwary, C. Majumder, P. Banerjee, S. Ganguly, S. Muralithar, R. P. Singh, G. H. Bhat, J. A. Sheikh and R. Palit
The European Physical Journal A 55 (4), 46, (2019)

- **Fabrication of ^{122}Sn target and its application in γ -ray spectroscopy**

S. Chakraborty, H. P. Sharma, S. S. Tiwary, C. Majumder, P. Banerjee, S. Ganguly, S. R. Abhilash, D. Kabiraj, R. P. Singh and S. Muralithar
Physica Scripta 93 (11), 115302, (2018)

- **Negative parity three-quasiparticle band in ^{127}I**

S. Chakraborty, H. P. Sharma, S. S. Tiwary, C. Majumder, P. Banerjee, S. Ganguly, S. Kumar, A. Kumar, A. Kumar, R. P. Singh, and S. Muralithar
The European Physical Journal A 54 (6), 112, (2018)

- **Rotational band on a three-quasineutron isomer in ^{127}Xe**

S. Chakraborty, H. P. Sharma, S. S. Tiwary, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Swati Modi, P. Arumugam, Mayank, S. Kumar, A. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar and R. Palit
Physical Review C 97 (5), 054311, (2018)

- **Revised level structure of ^{127}Xe**

S. Chakraborty, H. P. Sharma, S. S. Tiwary, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar, A. Kumar, and R. Palit
EPL (Europhysics Letters) 121 (4), 42001, (2018)

- **Study of antimagnetic rotation in $^{109-111}\text{Cd}$**

C. Majumder, H. P. Sharma, S. Chakraborty and **S. S. Tiwary**
International Journal of Modern Physics E 27 (04), 1850034, (2018)

- **Two-Neutron Alignment in ^{127}Xe**

S Chakraborty, H P Sharma, **S S Tiwary**, C Majumder, P K Prajapati, P Banerjee, S Ganguly, S Rai, P Popli, M Singh, S S Battacharjee, R P Singh, S Muralithar, A Kumar, S Kumar, and R Palit
Brazilian Journal of Physics 47 (4), 406-410, (2017)

International conference proceedings:

- **Three-quasiparticle Band in Iodine Nuclei**

S Chakraborty, H P Sharma, **S S Tiwary**, P Banerjee, S Ganguly, A Kumar, N Kaur, S Kumar, S Muralithar, R P Singh, L Chaturvedi, A Kumar, A K Jain, S Laxhminarayan.
Proc. of the Int. DAE Symp. on Nucl. Phys. 58 (2013) 286

- **Parity assignment of a dipole band in ^{139}Pm**

S. S. Tiwary, H. P. Sharma, S. Chakraborty, C. Majumder, P. Banerjee, S. Ganguly, A. Kumar, S. Kumar, S. K. Chamoli, K. Rojeeta Devi, Neelam, Mayank, A. Sharma, V. V. Jyothi, S. Muralithar, R. P. Singh, I. Bala, S. S. Bhattacharjee
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 63 (2018) 208

National conference proceedings:

2014

- **Level Scheme of ^{126}Te**

S S Tiwary, H P Sharma, S Chakraborty, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar
Proc. of the DAE Symp. on Nucl. Phys. 59 (2014) 260

- **Low Lying states in ^{200}Pb**

S Chakraborty, H P Sharma, **S S Tiwary**, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar
Proc. of the DAE Symp. on Nucl. Phys. 59 (2014) 94

- **Linear Polarization Measurement of Low Lying States of ^{198}Hg**

S Chakraborty, H P Sharma, **S S Tiwary**, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar.

Proc. of the DAE Symp. on Nucl. Phys. 59 (2014) 210

2015

- **Angular Correlation Measurements of ^{128}Te**
S S Tiwary, S Chakraborty, C Majumder, P K Prajapati, R P Singh, S Muralithar, S Ganguly, P Banerjee and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 314
- **Low Lying States of Te-Isotopes**
S S Tiwary, S Chakraborty, C Majumder, P K Prajapati, R P Singh, S Muralithar, S Ganguly, P Banerjee and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 316
- **Multi-quasiparticle states in ^{127}I**
S Chakraborty, S S Tiwary, C Majumder, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar, A Kumar, S Kumar, and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 292
- **Total Routhian Surface calculation for ^{127}I**
S Chakraborty, S S Tiwary, C Majumder, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar, and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 320
- **Possible Multiple Antimagnetic Rotational Bands in ^{106}Cd**
C Majumder, S Chakraborty, S S Tiwary, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar, and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 294
- **Investigation of Screening effect on production of K-shell X-ray by low energy Proton**
P K Prajapati, N Sharma, C Majumder, S S Tiwary, S Chakraborty and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 484

2016

- **Shell-Model Calculations for $^{106-114}\text{Te}$**
S S Tiwary, S Chakraborty, C Majumder, P K Prajapati and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 61 (2016) 336
- **Study Of $vh_{11/2}$ in ^{127}Xe**

S Chakraborty, **S S Tiwary**, C Majumder, P K Prajapati, P Banerjee, S Ganguly, R P Singh, S Muralithar, A Kumar, S Kumar, and H P Sharma
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 61 (2016) 278

2017

- **Observation of 8^+ and 10^+ multiplets in ^{124}Te**
S S Tiwary, H P Sharma, S Chakraborty, C Majumder, P Banerjee, S Ganguly, S Rai, Pragati, Mayank, S Kumar, A Kumar, S S Bhattacharjee, S Muralithar & R P Singh
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 314
- **Spectroscopy of ^{126}Xe**
S Chakraborty, H P Sharma, **S S Tiwary**, C Majumder, P Banerjee, S Ganguly, S Rai, Pragati, Mayank, S Kumar, A Kumar, S S Bhattacharjee, S Muralithar, R P Singh and R Palit
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 100
- **TRS calculations for $vh_{11/2}$ in ^{127}Xe**
S Chakraborty, H P Sharma, **S S Tiwary**, C Majumder, S Muralithar & R P Singh
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 358
- **Observation of $(4^+)_2$ and $(6^+)_2$ states in ^{200}Pb**
C Majumder, H P Sharma, S Chakraborty, **S S Tiwary**, P Banerjee, S Ganguly, S Muralithar and R P Singh
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 316

2019

- **Investigation for two quasi-particle negative parity bands in ^{124}Te**
S. S. Tiwary, H. P. Sharma, S. Chakraborty, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, Mayank, S. Kumar, S. S. Bhattacharjee, R. P. Singh, S. Muralithar, and A. Kumar
Proc. of the DAE-BRNS Symp. on Nucl. Phys. 64 (2019) 310

Conference/Symposium/School attended

- **7th One Day Conference on “Recent Trends in Research” [2014]**
Department of Physics, Banaras Hindu University, Varanasi-221005, India.
- **Winter School on Accelerator, Nuclear & Particle Physics [WSANPP-2014]**
Department of Physics, Banaras Hindu University, Varanasi-221005, India.

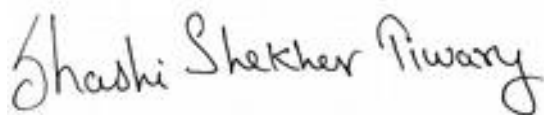
- DST-SERC School on “**Nuclear Structure at High Angular Momentum and Isospin**” [2014]
Tata Institute of Fundamental Research, Mumbai.
- DAE symposium on Nuclear Physics [2014]
Department of Physics, Banaras Hindu University, Varanasi, India.
- Workshop on **Recent Trends in Nuclear Physics (RTNP)** [2014]
Inter-University Accelerator Centre, New Delhi.
- **8th One Day Conference on “Recent Trends in Research”** [2015]
Department of Physics, Banaras Hindu University, Varanasi-221005, India.
- **CAS conference " Current Trends in Physics"** [2016]
Department of Physics, Banaras Hindu University, Varanasi-221005, India.
- **9th One Day Conference on “Recent Trends in Research”** [2016]
Department of Physics, Banaras Hindu University, Varanasi-221005, India.
- **Workshop on isomer studies at the focal plane of HYRA,**
Inter University Accelerator Centre, New Delhi.
- **DST-SERC School on “Nuclear Physics from New Perspectives”** [2017]
Department of Physics, Bharathiar University, Coimbatore – 641046
- **International Conference on Nuclear Physics with Energetic Heavy Ion Beam** 15-18 March [2017]
Department of Physics, Punjab University, Chandigarh
- 10th one day conference on “**Recent Trends in Physics**” 4th March [2017]
Department of Physics, BHU, Varanasi
- Thematic workshop on “**UNDERGROUND ACCELERATOR BASED NUCLEAR ASTROPHYSICS FACILITY**” 17 – 18 May [2017]
UGC-DAE Consortium for Scientific Research, Kolkata Centre
- **Modern Techniques in Gamma ray Spectroscopy of nuclei,** Nov. 2018
Inter University Accelerator Centre, New Delhi

Declaration:

I hereby that the information furnished above is true to the best of my knowledge.

Date: 23-07-2020

Place: Varanasi



(Shashi Shekher Tiwary)