

# CURRICULUM VITAE

## **TARKESHWAR TRIVEDI**

Department of Pure & Applied Physics,  
Guru Ghasidas Vishwavidyalaya,  
Bilaspur-495009  
India

**Mobile No. +91-9479245960**

**E-mail: [ttrivedi1@gmail.com](mailto:ttrivedi1@gmail.com)**

**Present Position:** Assistant Professor (joined on Feb 27, 2013)

**Area of Specilzation:** Expermental Nuclear Physics

**Marital Status:** Married

**Nationality:** Indian

## **EDUCATION**

**Ph.D. in Experimental Nuclear Physics :** “Study of Spectroscopic Properties of Proton Rich Nuclei”, (Experimental work has been done at Inter University Accelerator Centre, New Delhi, India.)

University of Allahabad, Allahabad, India

## **Professional Training:**

- Post-Doctoral Fellow, April 2012 to 22 November 2012, Weizmann Institute of Science, Rehovot, Israel
- Post-Doctoral Fellow, May 2010 to April 2012, Tata Institute of Fundamental Research, Mumbai, India
- Research Associate, Dec 2012 to Feb 2013, Inter University Accelerator Centre, New Delhi, India

**Publications:**        **65** (Papers in Scopus indexed journals)

**79** (Papers in International/National Conferences proceedings)

## **Ongoing Research Projects:**

- 1 “Investigation of Interplay of collective and magnetic rotation in medium mass In isotopes” sponsored by IUAC, New Delhi
- 2 “Investigation of stapler and chiral bands in transitional nuclei” sponsored by UGC-DAE-CSR, Kolkata

## **Research Project completed**

1. “Systematic Investigations of Octupole Correlations in  $^{151-154}\text{Eu}$  N=87-90 Nuclei” sponsored by IUAC, New Delhi

## **Honors/Awards:**

- Fienberg Graduate School Fellowship, Weizmann Institute of Science, Israel
- EPS award (Institute of Physics, UK)

## **Teaching Experience**

### **U.G Teaching Experience:**

Mechanics, Heat & Thermodynamics, Optical Instruments, Basic Nuclear Physics

### **P.G. Teaching Experience:**

Nuclear & Particle Physics

### **U.G/P.G Lab Experience:** (Experiment)

B.Sc. & M.Sc. Labs

### **Ph.D. student enrolled:**

1. Sutanu Bhattacharya
2. Arunita Mukherjee

### **Invited talk delivered:**

1. Structural evolution and symmetry breaking features of exotic nuclei-DAE-Symposium on Nuclear Physics, Lucknow University, Lucknow, December 23-27, 2019
2. Evolution of nuclear structure from single particle to collective excitations in complex nuclei - International conference on nuclear and accelerator physics, Central University of Jharkhand, Ranchi, October, 23-26, 2018
3. Investigations of novel mode excitations in exotic nuclei- International conference of International Academy of Physical Sciences (CONIAPSXXII) on Emerging Trends in Physical Sciences, April 13-15, 2018 organized by Dr. Ram Manohar Lohia Avadh University, Faizabad, India
4. Exploring the novel excitation and structural evolution in transitional nuclei Workshop on "INGA experiments" on 14-15 Sept. 2017, IUAC, New Delhi
5. Nuclear reaction studies relevant for astrophysical p-process using 3 MV particle accelerator at NCAR, GGV, Bilaspur - workshop on an underground accelerator based facility for research in nuclear astrophysics – May, 2017
6. The aspects of low energy accelerator and its applications in nuclear reaction cross-section measurements- National conference on nuclear and accelerator physics Central University of Jharkhand, Ranchi, October, 2016
7. Neutron-Induced Reaction Cross-Section Measurements for Nuclear Astrophysics using 3 MV Particle Accelerator- Recent Trends in Nuclear Structure and its implication in Astrophysics - IOP, Bhubaneswar, Jan, 2016
8. Discrete gamma ray spectroscopy with Indian National Gamma Array Weizmann Institute of Science, Rehovot, Israel, Dec, 2011.
9. Indian National Gamma Array & Associated Studies GSI, Darmstadt, Germany. Aug 2011.
10. High Spin Phenomena in Transitional Nuclei by Lifetime Measurements Tata Institute of Fundamental Research, Mumbai, May, 2010.
11. Shape evolution at high spin in 70-80 mass region School cum workshop on Nuclear yrast and near yrast spectroscopy October 26 -30, 2009 at IIT Roorkee.

### **Abroad Academic visits**

1. University of Manchester, UK, 2011
2. GSI, Germany, 2011
3. Weizmann Institute of Science, 2012
4. United State of America, 2016

## **Paper published in refereed journals:**

1. Evolution of collectivity and evidence of octupole correlations in  $^{73}\text{Br}$   
S.Bhattacharya, **T.Trivedi**, D.Negi, R.P.Singh, S.Muralithar, R.Palit, I.Ragnarsson,  
S.Nag, S.Rajbanshi, M.Kumar Raju, V.V.Parkar, G.Mohanto, S.Kumar, D.Choudhury,  
R.Kumar, R.K.Bhowmik, S.C.Pancholi, A.K.Jain  
**Phys. Rev. C 100, 014315 (2019)**
2. Shell-model Description in  $^{99}\text{Rh}$  and Systematics of Odd-A Rh Isotopes  
S.Kumar, S.Sihotra, V.Singh, J.Rather, M.Kaur, J.Goswamy, N.Singh, D.Mehta,  
T.Trivedi, R.P.Singh, S.Muralithar, R.Palit  
**Acta Phys.Pol. B50, 159 (2019)**
3. Fusion reaction studies for the  $^6\text{Li} + ^{124}\text{Sn}$  system at near-barrier energie  
V.V.Parkar, S.K.Pandit, A.Shrivastava, R.Palit, K.Mahata, V.Jha, K.Ramachandran,  
S.Gupta, S.Santra, S.K.Sharma, S.Upadhyaya, T.N.Nag, S.Bhattacharya, T.Trivedi,  
S.Kailas  
**Phys.Rev. C 98, 014601 (2018)**
4. Possible onset of multifaceted excitation modes in  $^{29}\text{Al}$   
H.Sultana, R.Bhattacharjee, A.Chakraborty, M.A.Khan, S.S.Bhattacharjee, R.Chakrabarti  
S.Das, U.Garg, S.S.Ghugre, R.Palit, R.Raut, S.Saha, S.Samanta, J.Sethi, A.K.Sinha,  
T.Trivedi  
**Phys.Rev. C 98, 014330 (2018)**
5. Investigation of complete and incomplete fusion in the  $^7\text{Li} + ^{124}\text{Sn}$  reaction near Coulomb  
barrier energies  
V.V.Parkar, SushilK.Sharma, R.Palit, S.Upadhyaya, A.Shrivastava, S.K.Pandit, K.Mahat  
a, V.Jha, S.Santra, K.Ramachandran, T.N.Nag, P.K.Rath, B.Kanagalekar, T.Trivedi  
**Phys.Rev. C 97, 014607 (2018)**
6. Evidence of antimagnetic rotation in an odd-odd nucleus: The case of  $^{142}\text{Eu}$   
S.Ali, S.Rajbanshi, B.Das, S.Chattopadhyay, M.S.Sarkar, A.Goswami, R.Raut, A.Bisoi,  
S.Nag, S.Saha, J.Sethi, R.Palit, G.Gangopadhyay, T.Bhattacharjee, S.Bhattacharyya, G.M  
ukherjee, A.K.Singh, T.Trivedi  
**Phys.Rev. C 96, 021304 (2017)**
7. Semi-decoupled band and other high-spin band structures in  $^{188}\text{Pt}$   
S.Mukhopadhyay, D.C.Biswas, S.K.Tandel, S.Frauendorf, L.S.Danu, P.N.Prashanth,  
B.N.Joshi, G.K.Prajapati, B.V.John, S.Nag, T.Trivedi, S.Saha, J.Sethi, R.Palit, P.K.Joshi  
**Phys.Rev. C 96, 014315 (2017)**
8. Ion beam Facilities at the National Centre for Accelerator based Research using a 3 MV  
Pelletron Accelerator  
T. Trivedi, Shiv P.Patel, P.Chandra, P.K.Bajpai  
**Physics Procedia 90, 100 (2017)**
9. Polarization measurements and high-spin states in  $^{86}_{38}\text{Sr}_{48}$

- N.Kumar, S.Kumar, V. Kumar, S.K. Mandal, R. Palit, S. Saha, J. Sethi, **T. Trivedi**,  
S.C.Pancholi, P.C. Srivastava  
**Nucl.Phys. A955, 1 (2016)**
10. Shears mechanism and development of collectivity in  $^{141}\text{Sm}$   
S.Rajbanshi, S.Ali, A.Bisoi, S.Nag, S.Saha, J.Sethi, T.Bhattacharjee, S.Bhattacharyya, S.  
Chattopadhyay, G.Gangopadhyay, G.Mukherjee, R.Palit, R.Raut, M.S.Sarkar, A.K.Singh,  
**T.Trivedi**, A.Goswami  
**Phys.Rev. C 94, 044318 (2016)**
  11. Structure of dipole bands in doubly odd  $^{102}\text{Ag}$   
V.Singh, S.Sihotra, S.S.Malik, G.H.Bhat, R.Palit, J.A.Sheikh, S.Kumar, N.Singh,  
K.Singh, J.Goswami, J.Sethi, S.Saha, **T.Trivedi**, D.Mehta  
**Phys.Rev. C 94, 044320 (2016)**
  12. Low-lying states near the  $I^\pi = 6^+$  isomer in  $^{108}\text{Ag}$   
J.Sethi, R.Palit, J.J.Carroll, S.Karamian, S.Saha, S.Biswas, Z.Naik, T.Trivedi, M.S.Litz, P  
.Datta, S.Chattopadhyay, R.Donthi, U.Garg, S.Jadhav, H.C.Jain, S.Kumar, D.Mehta, B.S.  
Naidu, G.H.Bhat, J.A.Sheikh, S.Sihotra, P.M.Walker  
**J.Phys. (London) G43, 015103 (2016)**
  13. Spectroscopy and shell model calculations in Si isotopes  
S.S.Bhattacharjee, R.Bhattacharjee, R.Raut, S.S.Ghugre, A.K.Sinha, L.Chaturvedi, T.Tri  
vedi, U.Garg, S.Ray, B.K.Yogi, M.K.Raju, R.Chakrabarti, S.Mukhopadhyay, A.Dhal, R.  
P.Singh, N.Madhavan, S.Muralithar, S.Saha, J.Sethi, R.Palit  
**Phys.Rev. C 91, 044306 (2015)**
  14. Transverse Wobbling in  $^{135}\text{Pr}$   
J.T.Matta, U.Garg, W.Li, S.Frauentorf, A.D.Ayangeakaa, D.Patel, K.W.Schlax, R.Palit,  
S.Saha, J.Sethi, **T.Trivedi**, S.S.Ghugre, R.Raut, A.K.Sinha, R.V.F.Janssens, S.Zhu, M.P.  
Carpenter, T.Lauritsen, D.Seweryniak, C.J.Chicara, F.G.Kondev, D.J.Hartley, C. M.  
Petrache, S.Mukhopadhyay, D.Vijaya Lakshmi, M.K.Raju, P.V.Madhusudhana Rao,  
S. K. Tandel, S.Ray, F.Donau  
**Phys.Rev.Lett. 114, 082501 (2015)**
  15. High spin spectroscopy and shape evolution in  $^{105}\text{Cd}$   
M.K.Raju, D.Negi, S.Muralithar, R.P.Singh, J.A.Sheikh, G.H.Bhat, R.Kumar, I.Bala, T.T  
rivedi, A.Dhal, K.Rani, R.Gurjar, D.Singh, R.Palit, B.S.Naidu, S.Saha, J.Sethi, R.Donthi,  
S.Jadhav  
**Phys.Rev. C 91, 024319 (2015)**
  16. Antimagnetic rotation and sudden change of electric quadrupole transition strength  
in  $^{143}\text{Eu}$   
S.Rajbanshi, S.Roy, S.Nag, A.Bisoi, S.Saha, J.Sethi, T.Bhattacharjee, S.Bhattacharyya,  
Chattopadhyay, G.Gangopadhyay, G.Mukherjee, R.Palit, R.Raut, M.S.Sarkar, A.K.Singh  
**T.Trivedi**, A.Goswami  
**Phys.Lett. B 748, 387 (2015)**
  17. Spectroscopy of the Low-lying States Near the High Spin Isomer in  $^{108}\text{Ag}$

- J.Sethi, R.Palit, J.J.Carroll, S.Karamian, S.Saha, S.Biswas, Z.Naik, T.Trivedi, M.S.Litz, P .Datta, S.Chattopadhyay, R.Donthi, U.Garg, S.Jadhav, H.C.Jain, S.Kumar, D.Mehta, B.S. Naidu, G.H.Bhat, J.A.Sheikh, S.Sihotra, P.M.Walker  
**Acta Phys.Pol. B46, 703 (2015)**
18. Shape evolution at high spin states in Kr and Br isotopes  
**T. Trivedi**, R. Palit, D. Negi, Z. Naik, Y.-C. Yang, Y. Sun, J. A. Sheikh, M. K. Raja, S. Kumar, D. Choudhury, R. Kumar, R. P. Singh, S. Muralithar, A. K. Jain, H. C. Jain, S. C. Pancholi, R. K. Bhowmik and I. Mehrotra  
**AIP Conf. Proc. 1609, 57 (2014)**
19. Dipole bands in high spin states of  $^{135}\text{La}$  78  
Ritika Garg, S. Kumar, Mansi Saxena, Savi Goyal, Davinder Siwal, S. Verma, R. Palit, Sudipta Saha, J. Sethi, Sushil K. Sharma, **T. Trivedi**, S. K. Jadav, R. Donthi, B. S. Naidu and S. Mandal  
**AIP Conf. Proc. 1609, 125 (2014)**
20. Collective excitations in  $^{33}\text{S}$   
M.S.Sarkar, S.Sarkar, S.Ray, D.Pramanik, R.Kshetri, S.Nag, K.Selvakumar, P.Singh, A.Goswami, S.Saha, J.Sethi, **T.Trivedi**, B.S.Naidu, R.Donthi, V.Nanal, R.Palit  
**Phys.Rev. C 90, 024328 (2014)**
21. Multiple magnetic rotational bands based on proton alignment in  $^{143}\text{Eu}$   
S.Rajbanshi, A.Biso, S. Nag, S.Saha, J. Sethi, T. Bhattacharjee, S.Bhattacharyya, S. Chattopadhyay, G.Gangopadhyay, G.Mukherjee, R.Palit, R.Raut, M.S.Sarkar, A.K.Singh, **T.Trivedi**, A.Goswami  
**Phys.Rev. C 90, 024318 (2014)**
22. Yrast structure of the shell model nucleus  $^{89}\text{Nb}$   
P.Singh, R.Palit, S.Saha, J.Sethi, S.Biswas, D.Choudhury, P.C.Srivastava, **T.Trivedi**  
**Phys.Rev. C 90, 014306 (2014)**
23. Band structures in  $^{99}\text{Rh}$   
S.Kumar, V.Singh, K.Singh, S.Sihotra, N.Singh, J.Goswami, S.S.Malik, I.Ragnarsson, **T.Trivedi**, R.P.Singh, S.Muralithar, R.Kumar, R.K.Bhowmik, R.Palit, A.Bharti, D.Mehta  
**J.Phys.(London) G41, 105110 (2014)**
24. *Coexisting shape- and high-K isomers in the shape transitional nucleus  $^{188}\text{Pt}$*   
S.Mukhopadhyay, D.C.Biswas, S.K.Tandel, L.S.Danu, B.N.Joshi, G.K.Prajapati, S.Nag, **T.Trivedi**, S.Saha, J.Sethi, R.Palit, P.K.Joshi  
**Phys.Lett. B 739, 462 (2014)**
25. Antimagnetic rotation in  $^{104}\text{Pd}$   
N.Rather, S.Roy, P.Datta, S.Chattopadhyay, A.Goswami, S.Nag, R.Palit, S.Pal, S.Saha, J. Sethi, **T.Trivedi**, H.C.Jain  
**Phys.Rev. C 89, 061303, (2014)**
26. Investigation of the high spin structure of  $^{88}\text{Zr}$   
S.Saha, R.Palit, J.Sethi, S.Biswas, P.Singh, **T.Trivedi**, D.Choudhury, P.C.Srivastava  
**Phys. Rev. C 89, 044315 (2014)**

27. Nuclear structure study of  $^{26}\text{Mg}$  following heavy-ion-induced fusion-evaporation reaction  
S.S.Bhattacharjee, R.Bhattacharjee, R.Chakrabarti, R.Raut, S.S.Ghugre, A.K.Sinha,  
**T.Trivedi**, L. Chaturvedi, S.Saha, J.Sethi, R.Palit  
**Phys. Rev. C 89, 024324 (2014)**
28. High spin band structure of  $^{85}_{38}\text{Sr}_{47}$   
S. Kumar, Naveen Kumar, S. Mandal, S. C. Pancholi, P. C. Srivastava, A. K. Jain, R.  
Palit, S. Saha, J. Sethi, B. S. Naidu, R. Donthi, P. K. Joshi, **T. Trivedi**, S. Muralithar, R.  
P. Singh, R. Kumar, A. Dhal, and R. K. Bhowmik  
**Phys.Rev. C 89, 024315 (2014)**
29. High spin spectroscopy in  $^{34}\text{Cl}$   
A.Bisoi, M.S.Sarkar, S.Sarkar, S.Ray, D.Pramanik, R.Kshetri, S.Nag, K.Selvakumar, P.Si  
ngh, A.Goswami, S.Saha, J.Sethi, **T.Trivedi**, B.S.Naidu, R.Donthi, V.Nanal, R.Palit  
**Phys.Rev. C 89, 024303 (2014)**
30. Shape coexistence in the near-spherical  $^{142}\text{Sm}$  nucleus  
S.Rajbanshi, A.Bisoi, S.Nag, S.Saha, J.Sethi, **T.Trivedi**, T.Bhattacharjee, S.Bhattachary  
a, S.Chattopadhyay, G.Gangopadhyay, G.Mukherjee, R.Palit, R.Raut, M.S.Sarkar, A.K.S  
ingh, A.Goswami  
**Phys. Rev. C 89, 014315 (2014)**
31. Multiple antimagnetic rotation bands in odd-A  $^{107}\text{Cd}$   
D.Choudhury, A.K.Jain, G.Anil Kumar, S.Kumar, Su.Singh, P.Singh, M.Sainath,  
**T.Trivedi**, J.Sethi, S.Saha, S.K.Jadav, B.S.Naidu, R.Palit, H.C.Jain, L.Chaturvedi,  
S.C.Pancholi  
**Phys. Rev. C 87, 034304 (2013)**
32. Probing Fundamental Interactions by an Electrostatic Ion Beam Trap  
A. Dhal, S.Vaintraub, **T.Trivedi**, O.Aviv, T.Hirsh, M.L.Rappaport, D.Melnik, O.Heber,  
D.Schwalm, D.Zajfman, K.Blaum, M.Hass  
**Acta Phys.Pol. B44, 647 (2013)**
33. High spin states in  $^{135}_{57}\text{La}_{78}$   
R.Garg, S.Kumar, M.Saxena, S.Goyal, D.Siwal, S.Verma, R.Palit, S.Saha, J.Sethi,  
S.K.Sharma, **T.Trivedi**, S.K.Jadav, R.Donthi, B.S.Naidu, S.Mandal  
**Phys.Rev. C 87, 034317 (2013)**
34. *Non-collective states in  $^{122}\text{Te}$*   
S.Nag, P.Singh, K.Selvakumar, A.K.Singh, A.Bisoi, A.Goswami, S.Bhattacharya, S.Kum  
ar, J. Sethi, S.Saha, **T.Trivedi**, S.V.Jadhav, R.Donthi, B.S.Naidu, R.Palit  
**Eur. Phys.J. A 49, 145 (2013)**
35. Structure of nearly degenerate dipole bands in  $^{108}\text{Ag}$   
J.Sethi, R.Palit, S.Saha, **T.Trivedi**, G.H.Bhat, J.A.Sheikh, P.Datta, J.J.Carroll,  
S.Chattopadhyay, R.Donthi, U.Garg, S.Jadhav, H.C.Jain, S.Karamian, S.Kumar,  
M.S.Litz, D.Mehta, B.S.Naidu, Z.Naik, S.Sihotra, P.M.Walker  
**Phys.Lett. B 725, 85 (2013)**
36. Evolution of octupole collectivity in  $^{221}\text{Th}$

- S.K.Tandel, M.Hemalatha, A.Y.Deo, S.B.Patel, R.Palit, **T.Trivedi**, J.Sethi, S.Saha, D.C.Biswas, S.Mukhopadhyay  
**Phys. Rev. C 87, 034319 (2013)**
37. Small quadrupole Deformation for the Dipole Bands in  $^{112}\text{In}$   
**T. Trivedi**, R. Palit, J. Sethi, S. Saha, B. S. Naidu, V.V. Parkar, Z. Naik, S. Kumar, D. Choudhury, A.K. Jain, D. Negi, R. Kumar, R. P. Singh, S. Muralithar, and R. K. Bhowmik,  
**Phys. Rev. C. 85, 14327 (2012)**
38. Large scale shell model description of  $^{102-108}\text{Sn}$  isotopes:  
**T. Trivedi**, D.Negi, P.C. Srivastava and I. Mehrotra  
**Intentional Journal of Modern Physics E.21, 1250049 (2012)**
39. Structure of dipole bands in  $^{112}\text{In}$ : Through lifetime measurements;  
**T. Trivedi**, J. Sethi, R. Palit, S. Saha, V.V. Parkar, P.K. Joshi, S. Kumar, Z. Naik, S. Sihotra, D. Mehta, D. Choudhury, A.K. Jain, D.C. Biswas, D. Negi, R. Kumar, R.P. Singh, S. Muralithar, R.K. Bhowmik, H.C. Jain  
**Journal of Physics: Conference Series 381, 012061 (2012)**
40. High Spin Spectroscopy of  $^{109}\text{In}$   
D. Negi, **T. Trivedi**, A. Dhal, S. Kumar, V. Kumar, S. Roy, M. K. Raju, S. Appannababu, G. Mohanto, J. Kaur, R. K. Sinha, D. Choudhury, D. Singh, R. Kumar, R. P. Singh, S. Muralithar, A. K. Bhati, S. C. Pancholi, and R. K. Bhowmik  
**Phys. Rev. C 85, 057301 (2012)**
41. A High Speed Digital Data Acquisition System for the Indian National Gamma Array at Tata Institute of Fundamental Research.  
R. Palit, S.Saha, J Sethi, **T. Trivedi**, S. Sharma, B.S. Naidu, R. Donthi, H. Tan, W.Hennig  
**Nucl. Instru. Meth. A. 680, 90 (2012)**
42. Experimental investigation of shell model excitations of  $^{89}\text{Zr}$  up to high spin  
**S. Saha, R. Palit, J. Sethi, T. Trivedi, P. C. Srivastava, S. Kumar, B. S. Naidu, R. Donthi, S. Jadhav, D. C. Biswas, U. Garg, A. Goswami, H. C. Jain, P. K. Joshi, G. Mukherjee, Z. Naik, S. Nag, V. Nanal, R. G. Pillay, S. Saha, and A. K. Singh**  
Phys. Rev. C 86, 034315 (2012)
43. Shape evolution in odd-A  $^{137}\text{Pm}$ ;  
Dhal, R.K. Sinha, D. Negi, **T. Trivedi**, M.K. Raju, D. Choudhury, G. Mahanto, S. Kumar, J. Gehlot, R. Kumar, S. Nath, S.S. Ghugre, R.P. Singh, J.J. Das, S. Muralithar, N. Madhavan, J.B. Gupta, A.K. Sinha, A.K. Jain, I.M. Govil, R.K. Bhowmik, S.C. Pancholi, L. Chaturvedi,  
**Eur. Phys. J A 48, 28 (2012)**
44. High-spin spectroscopy of  $^{122}\text{I}$   
Purnima Singh, Somnath Nag, K. Selvakumar, A. K. Singh, I.Ragnarsson, Abhijit Bisoi, A. Goswami, S. Bhattacharya, S. Kumar, K. Singh, J. Sethi, Sudipta Saha, **T. Trivedi**, S. V. Jadhav, R. Donthi, B. S. Naidu, and R. Palit  
**Phys. Rev. C 85, 054311 (2012)**

45. High spin band structures in doubly-odd  $^{194}\text{Tl}$ ;  
H. Pai, G. Mukherjee, S. Bhattacharyya, M.R. Gohil, T. Bhattacharjee, C. Bhattacharya,  
R. Palit, S. Saha, J. Sethi, **T. Trivedi**, S. Thakur, A. Goswami, S. Chanda  
**Phys. Rev. C** **85**, 064313 (2012)
46. Complete and incomplete fusion in  $^9\text{Be}+^{124}\text{Sn}$   
V.V. Parkar, R. Palit, S. Sharma, B.S. Naidu, S. Santra, P.K. Joshi, P.K. Rath, K. Mahata,  
K. Ramachandran, **T. Trivedi**, A. Raghav,  
**Proc. Radiochim Acta** **1**, 131 (2011)
47. Indian National Gamma Array at IUAC;  
S. Muralithar, Kusum Rani, Rakesh Kumar, R.P. Singh, J.J. Das, J. Gehlot, K.S. Golda,  
A. Jhingan, N. Madhavan, S. Nath, P. Sugathan, P. Barua, Arti Gupta, Mamta Jain, Ashok  
Kothari, B.P. Ajith Kumar, J. Malyadri, U. G. Naik, Raj Kumar, Rajesh Kumar, S. Rao,  
S.K. Saini, S.K. Suman, A. Dhal, D. Negi, K. Raja, **T. Trivedi**, and R. K. Bhowmik  
**Journal of Physics: Conference Series**. **312**, 052015 (2011)
48. Lifetime measurement of high spin states in  $^{75}\text{Kr}$ ;  
**T. Trivedi**, D. Negi, R. Palit, Z. Naik, A. Dhal, M. K. Raja, A. Babu, S. Kumar, D.  
Choudhury, K. Maurya, G. Mahanto, R. Kumar, R. P. Singh, S. Muralithar, A. K. Jain, H.  
C. Jain, S. C. Pancholi, R. K. Bhowmik and I. Mehrotra,  
**Nucl. Phys. A**. **834**, 72c (2010)
49. Fusion cross sections for the  $^9\text{Be}+^{124}\text{Sn}$  reaction at energies near the Coulomb barrier.  
V.V. Parkar, R. Palit, S. Sharma, B.S. Naidu, S. Santra, P.K. Joshi, P.K. Rath, K. Mahata,  
K. Ramachandran, **T. Trivedi**, A. Raghav,  
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