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Research Projects as a PI (Ongoing/Completed):

1. Multi-nucleon transfer effect on fusion cross section around coulomb barrier, IUAC, UGC, New Delhi.
2. UGC networking programme research project, UGC, New Delhi.
3. Study of unresolved issues of heavy ion fusion reaction dynamics through particle evaporation, IUAC-UGC, New Delhi.
4. Fast neutrons as a probe for elemental analysis, nuclear reaction studies and cross section measurements, Indo-Russian joint research award by DST, Govt. of India and RFBR, Russia.
5. Study of angular momentum variation in heavy ion fusion reactions at low energies, DST, New Delhi.
6. Validation of surrogate reaction technique for measuring (n,p) reaction cross sections and measurement for $^{51}\text{Cr}(n,p)$ cross sections, UGC-DAE CSR, Kolkata.
7. Surrogate Ratio Method: A fascinating tool to measure the nuclear reaction cross sections, DST-SERB, New Delhi.
8. Study of low energy neutrino physics and dark matter candidate searches with germanium detector, SPARC grant with China, from MHRD, Govt of India.
9. Study of surrogate reaction method, Institute of Eminence (IoE) BHU Grant.
10. Mapping of dissipation and entrance channel effects in heavy ions induced fusion reactions, IUAC-UGC, New Delhi.
11. Nuclear reaction cross section measurements, covariance analysis and data compilation, DAE-BRNS.
12. Capture cross section measurements for Sodium, Iron and Data Compilation, DAE BRNS, Mumbai.
13. Raja Jwala Prasad Post-Doctoral Fellowship Grant, SRICC, IoE, BHU, Varanasi.

Awards & Fellowships:

1. Junior Research Fellow (UGC), Dec. 1999 - Feb. 2002.
2. Senior Research Fellow (CSIR), March 2002 - July 2005.
3. Young Scientist Travel Grant award by GSI, Germany, to present a paper at the V Nuclear Physics Symposium 2003, France.
4. Best poster award at the 91st Indian Science Congress 2004, Chandigarh, India.
5. Research Scientist, Cyclotron Institute, Texas A&M University, USA.
6. INSA bilateral award, INSA, 2009.
7. Postdoctoral Fellow, University of Kentucky, Lexington, USA.
8. Fast Track Young Scientist Award in Physical Science, DST, Govt. of India, 2012.
9. Hostel Excellence Award, BHU, Varanasi, 2013.
10. BHU Vice Chancellor's Excellence Award in Research with one lakh cash and Citation, March 2014.
11. Hostel Excellence Award, BHU, Varanasi, 2017.
12. INSA bilateral exchange award for visiting Taiwan, February 2019.
13. International partner, TANGRA project, JINR, Dubna, Russia.
14. 2nd FLNP prize (Research award) under the category Nuclear Physics, "Investigation of inelastic neutron scattering by ^{27}Al nuclei", JINR, Dubna, Russia, 2019.
15. 1st FLNP prize (Research award) under the category Nuclear Physics, "Cycle of works for investigation of inelastic neutron scattering on light nuclei, JINR, Dubna, Russia, 2020.
16. Best poster award in DAE-BRNS Symposium on Nuclear Physics, Mumbai, India, 2021.

17. Offered Professorship in the Department of Physics, University of Lucknow, Uttar Pradesh, December 2021 (didn't join).
18. Best oral presentation award in the 16th DAE-BRNS Nuclear and Radiochemistry Symposium, BARC, Mumbai, 2023.
19. Best poster award in 16th DAE-BRNS Nuclear and Radiochemistry Symposium, BARC, Mumbai, 2023.
20. Best oral presentation award in Recent Trends in Research (RTR-2025), BHU, Varanasi, 2025.
21. Best poster award in International Conference on Nuclear Structure and Nuclear Reactions (ICNSNR-2025), Aligarh Muslim University, Aligarh, 2025.
22. Best oral presentation award in One-day Conference on New Trends in Research (NTR-2026), BHU, Varanasi, 2026.
23. Best poster presentation award in Horizons in Nuclear Physics (HINP-2026), Shiv Nadar Institution of Eminence, Delhi-NCR, India, 2026.

Ph.D. Supervision: Seven awarded and eight ongoing.

Master's Thesis Supervision: Thirty supervised.

Facilities used/established and expertise:

1. 7 MV VDG Accelerator, Kentucky University, USA.
2. 15 UD Pelletron Accelerator, IUAC, New Delhi, India.
3. 14 UD BARC-TIFR Pelletron Facility at Mumbai, India.
4. Cyclotron, Chandigarh, India.
5. FOTIA facility at BARC, Mumbai, India.
6. PURNIMA facility at BARC, Mumbai, India.
7. K-130 cyclotron, VECC, Kolkata, India.
8. HIGS at TUNL, Durham, North Carolina, USA.
9. Superconducting Cyclotron, TAMU, College Station, USA.
10. Tagged Neutron Facility, JINR, Dubna, Russia.
11. Hands-on experience in nuclear electronics, detectors such as HPGe, Silicon.
12. Expertise in particle spectroscopy, N-TOF setup, and accelerator physics.
13. Supervision, Installation of Dense Plasma Facility, Department of Physics, BHU, March 2022.

Invited Talks:

1. Recent Scientific and Technological advances in Physical Science, SVNIT, Surat, December 29, 2008-January 02, 2009.
2. National Workshop on Neutron Generator and Applications, September 2009, BHU, Varanasi.
3. International Symposium on Exotic Nuclei "EXON - 2009" Sochi, 28 September - 02 October 2009, Sochi, Russia.
4. Present status of Particle accelerators in India, AICTE sponsored Staff Development Programme (SDP) on "Advances in Condensed matter Physics, NIT, Surat, September 04, 2009.
5. Fourteenth International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, August 28 - September 2, 2011, University of Guelph, Canada.
6. APS Fall meeting, Michigan State University, USA, 2011.
7. International Theme meeting on EXFOR Compilation of nuclear data, BHU, Varanasi, February 18-22, 2013,
8. Two Days National Workshop cum Theme Meeting on Ion Beam Induced Material Modifications & Neutron Generation using 3 MV Particle Accelerator: Applications in Physical, Chemical and Life Sciences", GGU, Bilaspur, August 19-20, 2013.
9. International Symposium on Entrance Channel Effect on the Reaction Mechanism in Heavy Ion Collisions, Messina, Italy, November 6-8, 2013.

10. Study of Elastic and Inelastic Neutron Cross sections using Time of Flight Technique, 5th AASPP Workshop on Asian Nuclear Reaction Database Development, BARC, Mumbai, September 22-24, 2014.
11. BHU Accelerator project and Physics with neutron beam, National School cum Workshop in Accelerator Physics, Panjab University, Chandigarh March 15-18, 2016.
12. Winter School on “Accelerator, Nuclear and Particle Physics”, BHU, Varanasi, March 29-April 04, 2014.
13. Ion beam applications around Banaras using PIXE and PIGE, 2nd International Notre Dame Europe Symposium on Nuclear Science and Society to be held at Notre Dame Rome Center, Rome, Italy, November 05, 2015.
14. Neutron Time of Flight Technique and Shielding Importance, Workshop on Light from Dark side of The Universe, BHU, Varanasi, March 17-20, 2015.
15. Nuclear reaction dynamics, Summer School on Nuclear and Particle Physics, BHU, Varanasi, September 23-October 12, 2015.
16. Nuclear reactions, UGC Workshop on Physics of particles, Nuclei and related instrumentation, BHU, Varanasi, January 27-31, 2015.
17. Neutron: A fantastic tool to study the nucleus, TANGRA collaboration meeting, JINR, Dubna, Russia, December 09, 2016.
18. N for Naughty N for Neutron, National Conference on Nuclear and Accelerator Physics (NCNAP- 2016) Central University of Jharkhand, Brambe, Ranchi, October 05, 2016.
19. Study of Neutron Scattering through Time-of-Flight Technique, National Conference on Recent Trends in Nuclear Physics, at AMU, Aligarh, February 15-16, 2016.
20. Sources of errors in neutron scattering measurements, Error propagation in nuclear reaction data measurement-2017: A two days National workshop, Mizoram University, Aizwal, March 13, 2017.
21. Neutron Measurements at BARC, DUBNA and Kentucky facilities, International Conference in Nuclear Physics with Energetic Heavy Ion Beams (ICNP 2017), Panjab University, Chandigarh, March 18, 2017.
22. Fast Neutrons as a probe for Elemental Analysis, Nuclear Reaction Studies and Cross Section Measurements, Invited talk at Dubna, Russia, June 21, 2017.
23. Fast Neutrons as a probe for Nuclear Reaction Studies and Cross Section Measurements, International Conference on High Energy Radiation and Applications (ICHERA-2017), Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, India, October 10 - 13, 2017.
24. Particle accelerator and role of BHU, UGC DAE, Kolkata Centre, May 17, 2017.
25. Beauty of TAGGED Neutron measurements, New Horizons in Heavy-ion induced Fission and Nuclear Data Applications (NHHF&NDA), DAE-BRNS Theme Meeting, BARC, Mumbai, June 22-24, 2018.
26. Study of Tagged Neutron measurements, National seminar on Nuclear and High energy Physics, Guwahati University, March 30-31, 2018.
27. Who is game changer in heavy-ion-fusion reaction dynamics? International Conference of Nuclear Physics, Visva Bharati, Shantiniketan, February 03-05, 2019.
28. Neutron: A versatile tool for nuclear reaction studies, Institute of Physics, Academia Sinica, Taiwan, December 25, 2019.
29. Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions, Department of Physics, Aligarh Muslim University, March 03, 2020.
30. Radiation interaction with matter, Online Guest lecture at Department of Physics, GLA University, Mathura, April 26, 2020.

31. An Introduction about Nuclear Reaction, invited lecture as a resource person in the UGC-sponsored online Refresher Course in Physics at Physics Department, University of Allahabad, December 04, 2020.
32. Naughty Neutrons, Online Guest Lecture at Department of Physics, GLA University, Mathura, March 06, 2021.
33. Neutrons in Research, Invited Lecture at Design Innovation Centre, Banaras Hindu University, Varanasi, February 28, 2022.
34. Online Guest Lecture at Department of Physics, GLA University, Mathura, 2022.
35. The Interaction of Particle with Matter, Online Lecture at Faculty of Science & Technology, ICFAI University, Himachal Pradesh, July 05, 2022.
36. Invited lecture on National Science Day at IIMT College of Engineering, Greater Noida, February 28, 2022.
37. Naughty Neutrons: About its production, Invited Talk at Department of Physics, Vivekanand Education Society's College, August 24, 2022.
38. Heavy ion fusion Dynamics: Creation of entrance channel effects, Invited talk in a workshop on NAND Experiments: Present Status and Future Developments at IUAC, New Delhi, September 20 - 21, 2022.
39. N for naughty and N for neutron: Naughty neutrons, Invited Talk at Brno University of Technology in Brno, Czech Republic, December 20, 2022.
40. How much to blame for entrance channel effects in heavy ion fusion fission dynamics, Invited Talk at DAE-BRNS Symposium on Nuclear Reaction and Structure up to Intermediate Energy Collision (NRSIC-23), VECC, Kolkata, January 25, 2023.
41. An Overview on New Education Policy, Invited talk at National Seminar on National Education Policy 2020, Mahatma Gandhi Kashi Vidyapith, Varanasi, April 29, 2023.
42. N for naughty and N for neutron: An introduction about Neutron, Invited Talk at Peaceful uses of atomic energy, IIT BHU, Varanasi, October 14, 2023.
43. Research activities at BHU and with JINR, Dubna, Invited Talk at Joint Institute of Nuclear Research, Dubna, Russia, October 16-19, 2023.
44. Stitching the patches between fusion and fission dynamics, Invited Talk at "Meghnad Saha Memorial International Conference on Frontiers of Physics" (MSMICFP-2023), University of Allahabad, Prayagraj, U.P., November 24, 2023.
45. Neutron: A fascinating tool for nuclear physics studies, Invited Talk at Bhabha Atomic Research Centre (BARC), Department of Atomic Energy, Anushakti Nagar, Mumbai, November 29, 2023.
46. Neutron: A fascinating tool to study nuclear reactions, Invited Talk at University of Rajasthan, Jaipur, December 6, 2023.
47. Re-investigation of fusion reaction dynamics using SCC, Invited Talk at Variable Cyclotron Research Centre (VECC), Kolkata, December 21, 2023.
48. Re Investigation of entrance channel effects in heavy ion fusion fission dynamics, Invited talk at "International Seminar on Interaction of Neutrons with Nuclei" (ISINN-30), Sharm El-Sheikh, Egypt, April 17, 2024.
49. What we have done, doing and planning using IUAC facilities, Invited talk in "Workshop on Physics with Recoil Separators and Large Neutron Array (PRSLNA-24)", Inter-University Accelerator Centre (IUAC), New Delhi, May 20-22, 2024.
50. Neutron: A fascinating tool for Research and Development, Invited talk at "DAE-BRNS 1st National Conference on Pulsed Power Science Technology & Applications" (PPSTA-2024), Bhabha Atomic Research Centre (BARC), Visakhapatnam, September 13, 2024.

51. Time of flight and Tagged Neutron spectroscopy: Tools to study Nuclear Reactions, Invited talk at “International Conference on Nuclear Physics and Applications (ICNPA-2024)”, University of Delhi, October 21-25, 2024.
52. Career opportunities in Physics, Invited talk organized by Training and Placement Cell, Institute of Science, Department of Physics, Banaras Hindu University, Varanasi, February 22, 2025.
53. Nuclear Physics Research Activities at BHU, Invited talk at “International Conference on Nuclear Structure and Nuclear Reactions (ICNSNR-2025)”, Aligarh Muslim University, Aligarh, May 5-7, 2025.
54. New possibilities and opportunities with HIC @ IUAC, Invited talk at the Inter-University Accelerator Centre (IUAC), New Delhi, May 20, 2025.
55. Study of alpha induced nuclear reactions on nickel as a structural material for nuclear reactors, Invited talk at “25th International Scientific Conference on Electric Power Engineering (EPE)”, Prague, Czech Republic, May 27-29, 2025.
56. Our Research activities in India and at JINR, Invited talk at “India-JINR Workshop on Particle, Nuclear, Neutrino Physics and Astrophysics”, National Institute of Science Education and Research (NISER), Bhubaneswar, November 10-12, 2025.
57. T & T neutron spectroscopy, Invited talk at “National Conference on Advanced Instrumentation for Nuclear Physics, High Energy Physics and Medical Imaging”, Central University of South Bihar, Gaya, February 23-25, 2026.
58. Study of dynamical and entrance channel effects in heavy ion fusion-fission reactions, Invited talk at “International Seminar on Interaction of Neutrons with Nuclei (ISINN-32)”, JINR, Dubna, Russia, May 24-30, 2026.
59. Neutron: A versatile tool for nuclear reaction studies, Invited talk at “Innovations in Nuclear Physics and its Applications to Nuclear Power Generation (INP-NGP-2026)”, The ICFAI University Tripura, India, July 20-24, 2026.
60. N for Neutron N for Nuclear Physics, Invited talk at “One day workshop on Youth for a Nuclear-safe world”, Sunbeam Women’s College, Varuna, India, August 6, 2026.
61. Neutron Cross section measurements: Direct and Indirect approaches, Invited talk at “Horizons in Nuclear Physics (HINP-2026)”, Shiv Nadar Institution of Eminence, Delhi-NCR, India, September 21-23, 2026.

Symposium/Workshop/Conference organized:

1. Co-Convener, National Workshop on Neutron Generator and Applications, September 2009.
2. Convener, International Theme meeting on EXFOR Compilation of nuclear data, February 18-22, 2013.
3. Dy-Director, Winter School on “Accelerator, Nuclear and Particle Physics”, March 29-April 04, 2014.
4. Secretary, DAE-BRNS Nuclear Physics Symposium, December 08-12, 2014.
5. Co-Convener, Nuclear Physics School under UGC Networking Programme, February 2015.
6. Convener, One-day Conference, Physics Department, February 2016, BHU, Varanasi.
7. Co-convener, Winter School on beyond the Standard Model physics, January 24-February 14, 2016.
8. Convener, International Conference on New Frontiers in Nuclear Physics, October 14-17, 2019, BHU, Varanasi.
9. Co-convener, Indo-China Workshop on Neutrino Physics: Theory and Experiment, October 19-25, 2019, BHU, Varanasi.

Membership of Scientific organizations:

1. Member, American Physical Society.

2. Life member, Indian Society for Particle Accelerators Society.
3. Life member, Indian Physics Association.
4. Associate Editor, Journal of Scientific Research.
5. Treasurer and Founding Member, Indian Nuclear Physics Association.

Administrative Positions:

1. Warden, Broacha Hostel, July 06, 2012 to July 04, 2018.
2. Member, Undergraduate Admission Coordination Committee (UACC), BHU.
3. Member, Post Graduate Admission Coordination Committee (PACC), Physics Department, BHU.
4. Member, IQAC, Institute of Science, BHU, Varanasi
5. Member, Organizing Committee of Aakanksha, Cultural festival of Institute of Science, BHU, Varanasi.
6. Member, Time Table Committee, Physics Department, BHU, Varanasi
7. Member Secretary, Anti-Ragging Squad, Institute of Science, BHU, Varanasi.
8. Member of Annie Besant Fellowship Program, IoE, BHU, Varanasi.
9. Convener, Malaviya Postdoctoral Fellowship Programme, Banaras Hindu University, Varanasi.
10. Member, Board of Studies, Mahatma Gandhi Kashi Vidyapeeth, Varanasi.
11. Member, Examination Committee, Mahatma Gandhi Kashi Vidyapeeth, Varanasi.
12. Coordinator (Faculty Recruitment and Assistance Programme), Banaras Hindu University, Varanasi.
13. Member, Academic Council, Mahatma Gandhi Kashi Vidyapeeth, Varanasi.
14. Member, Academic Council, Netaji Subhash Chandra Bose Institute of Higher Learning (NSCBIHL), Andaman and Nicobar Islands.

Journal Reviewer: Phys. Rev. C, Phys. Rev. Lett. and Indian Journal of Physics.

Policy report: Existing and upcoming particle accelerators in India, B. Lalremruata, S. Kailas, V.N. Bhoraskar, S. Ganesan, Alok Saxena, B.K. Nayak, Ajay Kumar, M.M. Musthafa, S. Mukherjee, G. Mukherjee, H. Naik, S.D. Dhole, Published by International Atomic Energy Agency (IAEA), Vienna, INDC(IND)-0050 Distr. G, 2017. ([Existing and upcoming particle accelerators in India](#))

List of publications in referred journals:

1. To investigate the impact of shell closure on N/Z of $^{206-216}\text{Rn}^*$ using neutron multiplicity as a probe, Punit Dubey, Mahima Upadhyay, Mahesh Choudhary, Namrata Singh, Shweta Singh, Sriya Paul, Nedumbally Saneesh, Rishabh Prajapati, Mohit Kumar, Komalan Satheedas Golda, Akhil Jhingan, Pullanhiotan Sugathan, Jhilam Sadhukhan, Raghav Agarwal, Kiran, Ajay Kumar, EPJ Web of Conferences 368, 00013 (2026).
DOI: <https://doi.org/10.1051/epjconf/202636800013>
2. A study of dynamical effects in heavy-ion fusion reactions in the mass region $A_{\text{CN}} \geq 100$, Punit Dubey, Ajay Kumar, International Journal of Modern Physics E 35, 2650035 (2026).
DOI: <https://doi.org/10.1142/S0218301326500357>
3. Cross correlation between neutron- and proton-shell closure in the pre-actinide region, Punit Dubey, Mahima Upadhyay, Mahesh Choudhary, Namrata Singh, Sriya Paul, Shweta Singh, Ajay Kumar, N. Saneesh, Mohit Kumar, Rishabh Prajapati, K. S. Golda, Akhil Jhingan, P. Sugathan, Jhilam Sadhukhan, Raghav Aggarwal, Kiran, Physical Review C 113, 044602 (2026).
DOI: <https://doi.org/10.1103/xf49-y6j5>
4. Cross-section measurement of $^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$ with covariance analysis, Mahima Upadhyay, Punit Dubey, Mahesh Choudhary, Namrata Singh, Shweta Singh, Sriya Paul, G. Mishra, G. Mohanto, Sukanya De, L. S. Danu, B. Lalremruata, Yu N. Kopatch, I. N. Ruskov, Ajay Kumar, R. G. Thomas, A. Kumar, Nuclear Physics A 1067, 123312 (2026).
DOI: <https://doi.org/10.1016/j.nuclphysa.2025.123312>

5. Validation of neutron capture cross section on ^{68}Zn in the vicinity of the inelastic scattering threshold, Monika, Sumit Bamal, Priyam Rabha, A. Gandhi, S. Lawitlang, B. Lalremruata, A. Kumar, Rajeev Kumar, L. S. Danu, S. Santra, B. K. Nayak, Rebecca Pachuau, Eur. Phys. Journal A 61, 236 (2025).
DOI: <https://doi.org/10.1140/epja/s10050-025-01712-4>
6. New experimental insights about dissipation near shell closure, Punit Dubey, Mahima Upadhyay, Mahesh Choudhary, Namrata Singh, Shweta Singh, A. Kumar, N. Saneesh, Mohit Kumar, Rishabh Prajapati, K. S. Golda, Akhil Jhingan, P. Sugathan, Jhila Sadhukhan, Raghav Aggarwal, Kiran, Physical Review C Letter 112, L011602 (2025).
DOI: <https://doi.org/10.1103/xhlj-55lw>
7. Re-Investigation of Entrance Channel Effects in Heavy-Ion Fusion-Fission Dynamics, Punit Dubey, Ajay Kumar, Physics of Particles and Nuclei Letters 22, 2 (2025).
DOI: <https://doi.org/10.1134/S1547477124702170>
8. Study of the uncertainty quantification of the $^{121}\text{Sb}(n, \gamma)^{122}\text{Sb}$ reaction, Namrata Singh, Mahesh Choudhary, A. Gandhi, Mahima Upadhyay, R. K. Singh, Akash Hingu, G. Mishra, Sukanya De, L. S. Danu, Ajay Kumar, R. G. Thomas, Saurav Sood, Sajin Prasad, B. Lalremruata, K. Katovsky, A. Kumar, Eur. Phys. J. Plus 140, 38 (2025).
DOI: <https://doi.org/10.1140/epjp/s13360-024-05955-w>
9. Uncertainty propagation and covariance analysis of $^{181}\text{Ta}(n, \gamma)^{182}\text{Ta}$ nuclear reaction, Namrata Singh, Mahesh Choudhary, A. Gandhi, Aman Sharma, Mahima Upadhyay, Punit Dubey, Akash Hingu, G. Mishra, Sukanya De, A. Mitra, L. S. Danu, Ajay Kumar, R. G. Thomas, Saurav Sood, Sajin Prasad, and A. Kumar, (arXiv), 2024.
DOI: <https://doi.org/10.48550/arXiv.2412.01385>
10. Measurement and GEANT4 Simulation of Photopeak Efficiency and Covariance Analysis of γ -Detectors in TANGRA Setup, Pretam K. Das, U. Mishra, Yu. N. Kopach, I. V. Ruskov, M. Upadhyay, A. Kumar, C. Hramco, T. Yu. Tretyakova, G.V. Pampushik, A. V. Andreev, TANGRA Collaboration, International Journal of Modern Physics E 33, 2441032 (2024).
DOI: <https://doi.org/10.1142/S0218301324410325>
11. Structure of low-spin states in ^{45}Sc studied via coulomb excitation*, M. Matejska-Minda, P.J. Napiorkowski, A.K. Tyagi, B. Wasilewska, H.J. Wollersheim, K. Wrzosek-Lipska, M. Zielińska, Acta Physica Polonica B 17, 3-A3 (2024).
DOI: <https://doi.org/10.5506/aphyspolbsupp.17.3-a3>
12. Excitation functions for $^{nat}\text{Ag}(\alpha, x)$ reactions with detailed covariance analysis, Mahesh Choudhary, Namrata Singh, Mahima Upadhyay, Punit Dubey, Shweta Singh, Sriya Paul, Utkarsha Mishra, S. Dasgupta, J. Datta, A. Kumar, Nuclear Physics A 1050, 122917 (2024).
DOI: <https://doi.org/10.1016/j.nuclphysa.2024.122917>
13. New Version of the Experimental Setup for the Measurement of γ -Quantum Emission Cross Sections in Nuclear Reactions Induced by 14.1 MeV Neutrons, Yu. N. Kopatch, D. N. Grozdanov, N. A. Fedorov, T. Yu. Tretyakova, P. I. Kharlamov, A. V. Andreev, G. Ahmedov, D. Berikov, S. Dabylova, Pr. K. Das, A. Kumar, G. V. Panpushik, I. N. Ruskov, I. A. Sirakov, V. R. Skoy, P. G. Filonchik, K. Hramco, Physics of Nuclei and Elementary Particles 79, 2430201 (2024).
DOI: <https://doi.org/10.3103/S0027134924700437>
14. Comprehensive Analysis of Uncertainty Quantification for the $^{58}\text{Ni}(n, p)^{58}\text{Co}$ Reaction Cross Section, Mahesh Choudhary, Aman Sharma, Namrata Singh, Mahima Upadhyay, Punit Dubey, A. Gandhi, Akash Hingu, G. Mishra, Sukanya De, L. S. Danu, Ajay Kumar, R. G. Thomas, Saurav Sood, Sajin Prasad, S. Mukherjee, K. Katovsky, Yu. N. Kopatch, and A. Kumar, Chinese Physics C 48, 094104 (2024).
DOI: <https://doi.org/10.1088/1674-1137/ad5662>

15. Production of ^{97}Ru and ^{103}Ru radionuclide from alpha-induced reaction on $^{\text{nat}}\text{Mo}$, Mahima Upadhyay, Mahesh Choudhary, Namrata Singh, A. Gandhi, Punit Dubey, S. Dasgupta, J. Datta, Yu. N. Kopatch, I. N. Ruskov, A. Kumar, *Journal of Radioanalytical and Nuclear Chemistry* 334, 6423–6429 (2024).
DOI: <https://doi.org/10.1007/s10967-024-09616-1>
16. Exploring the influence of entrance channel on neutron multiplicity for $^{212}\text{Rn}^*$, Punit Dubey, Prem Singh, Prerna Garg, Ajay Kumar, *Journal of Radioanalytical and Nuclear Chemistry* 333, 5363–5369 (2024).
DOI: <https://doi.org/10.1007/s10967-024-09537-z>
17. Estimation of global level density parameters using an unscented transform Kalman filter technique, Mahesh Choudhary, Aman Sharma, Namrata Singh, Punit Dubey, Mahima Upadhyay, Sriya Paul, Shweta Singh, Utkarsha Mishra, A. Kumar, S. Dasgupta, J. Datta, *Physical Review C Letter* 109, L041603 (2024).
DOI: <https://doi.org/10.1103/PhysRevC.109.L041603>
18. Excitation functions of alpha-particle induced nuclear reactions on $^{\text{nat}}\text{Sn}$, Mahesh Choudhary, Namrata Singh, Aman Sharma, Aman Gandhi, Mahima Upadhyay, Rebecca Pachua, Sandipan Dasgupta, Jagannath Datta, Ajay Kumar, *Radiochimica Acta* (2024).
DOI: <https://doi.org/10.1515/ract-2023-0202>
19. Measurement of the excitation functions for $^{\text{nat}}\text{Ni}(a,x)$ reactions with detailed covariance analysis, Namrata Singh, Mahesh Choudhary, A. Gandhi, Aman Sharma, Mahima Upadhyay, Punit Dubey, Rebecca Pachua, S. Dasgupta, J. Datta, A. Kumar, *The European Physical Journal A* 60, 24 (2024).
DOI: <https://doi.org/10.1140/epja/s10050-024-01247-0>
20. Study of the surrogate ratio method by determination of $^{56}\text{Fe}(n,xp)$ cross sections, Aman Sharma, Punit Dubey, Utkarsha Mishra, Nitin Dubey, Jyoti Pandey, Ramandeep Gandhi, A. Pal, Abhijit Baishya, T. Santhosh, P.C. Rout, B.K. Nayak, S. Santra, A. Chakraborty, A. Kumar, *Physics Letters B* 848, 138381 (2024).
DOI: <https://doi.org/10.1016/j.physletb.2023.138381>
21. Investigation of $^{58}\text{Ni}(n,p)^{58}\text{Co}$ reaction cross-section with covariance analysis, Akash Hingu, Surjit Mukherjee, Siddharth Parashari, Sangeeta Arora, Aman Gandhi, Mahima Upadhyay, Mahesh Choudhary, Sumit Bamal, Namrata Singh, Gaurav Mishra, Sukanya De, Saurav Sood, Sajin Prasad, G. Saxena, Ajay Kumar, R.G. Thomas, B.K. Agrawal, Karel Katovsky, A. Kumar, *Chinese Physics C* 48, 024001 (2024).
DOI: <https://doi.org/10.1088/1674-1137/ad0e5a>
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