


Faculty Profile: For University Website

DEPARTMENT OF PHYSICS

Personal Information	<p>Dr. Dharmendra Singh Associate Professor Department of Physics Mobile: 8809323825, 6200941307 Email Id: dharmendra.singh@cuja.ac.in dsinghcuj@gmail.com Orcid id: 0000-0003-3242-2059 Scopus Author ID: 57208476947 WoS Researcher ID: Y-9574-2019 Vidwan ID: 115057 GoogleScholar: https://scholar.google.com/citations?hl=en&user=1HjJZp0AAAAAJ&view_op=list_works&sortby=pubdate</p>	
Educational Qualification:	<ul style="list-style-type: none"> • Ph.D. (2008), Aligarh Muslim University, U.P., India • M.Phil. (2003), Aligarh Muslim University, U.P., India • M.Sc. (2000), Dr. B. R. A. University, Agra, U.P., India 	
Courses Taught:	<ul style="list-style-type: none"> • Introductory Physics (1st Sem.) • Engineering Physics (1st Sem.) • Modern Physics (2nd Sem.) • Thermal Physics (3rd Sem.) • Electricity and Magnetism-I (4th Sem.) • Intermediate Energy Nuclear Physics (5th Sem.) • Nuclear Physics (6th Sem.) • Experimental Techniques and Analytical Studies (7th Sem.) • Atomic and Molecular Physics-I (8th Sem.) • Nuclear and Particle Physics (9th Sem.) • Experimental Nuclear Physics (9th Sem.) • Experimental Techniques in Physics (3rd Sem.) • Applied Radiation Physics (4th Sem.) • Accelerator Physics (4th Sem.) • Nuclear Physics (Ph.D. Course work) • Radiation Physics (Ph.D. Course work) 	
Additional role/ responsibility:	<ol style="list-style-type: none"> 1. Head, Department of Physics, from July 2020 to February 2024 2. Chairman, Departmental Research Committee, Department of Physics (2020 to 2023) 	

	<ol style="list-style-type: none"> 3. Chairman, Board of Studies, Department of Physics (2020 to 2023) 4. Chairman, Research Advisory Committees (RACs), Department of Physics, (2020 to 2023) 5. Chairman, Departmental Admission Committee, Department of Physics (2020 to 2022) 6. Chief Superintendent cum Custodian for University Examination (2022) 7. Member, Board of School, School of Natural Sciences, CUJ (2019 to 2023) 8. Member, Academic Council, CUJ (2020 to 2023) 9. Member of Board of Studies- Department of Physics (2017 to 2023) 10. Member of Board of Studies - Department of Mathematics (2019, 2024) 11. Member of Board of Studies - Department of Chemistry (2018 to 2024) 12. Member of Board of Studies - Department of Geology (2024) 13. Member of Board of Studies, Department of Computer Science and Technology (2021 to 2023) 14. Member of Board of Studies, Department of Water Engineering and Management (2021) 15. Member of Board of Studies, Department of Life Sciences (2021 to 2023) 16. Member of Board of Studies, Department of Physics, RKDF, University, Ranchi- 2023 17. Member, Committee for preparation of CUJ UG regulation as per NEP 18. Member of CUJ Admission Committee (2014 to 2016) 19. Member of Cultural Committee (2015) 20. Member of NSS Wing-2015
Professional /Administrative Experience:	<ul style="list-style-type: none"> • Head, Department of Physics (July 2020-February 2024) • Associate Professor (2020), Department of Physics, Central University of Jharkhand, Ranchi, India • Assistant Professor (2012–2020), Department of Physics, Central University of Jharkhand, Ranchi, India • Research Associate/Young Scientist (2009–2012), Inter University Accelerator Center, New Delhi, India • Lecturer (2008 –2009), ABES, Engineering College, Ghaziabad, U.P., India
Awards & Honours	<ul style="list-style-type: none"> • Research Associate ship in 2009 from Inter University Accelerator Centre (IUAC) New Delhi. • Research Associate ship in 2010 at Inter University Accelerator Centre (IUAC) New Delhi from Council of Scientific and Industrial Research (CSIR), New Delhi. • Young Scientist in 2011 at Inter University Accelerator Centre (IUAC) New Delhi from Department of Science and Technology (DST), New Delhi, India.

	<ul style="list-style-type: none"> • “13th Annual Foundation Day Research Award 2022” by Central University of Jharkhand, Ranchi for distinct contribution in the field of research. 																								
Research Area:	<ul style="list-style-type: none"> • Experimental Nuclear Physics • Radiation Physics • Nuclear Instrumentation • Accelerator Physics 																								
Research Guidance:	<p>Ph.D.: 07(Awarded:03; Submitted: 00; Pursuing: 04), M.Sc: 83 (Awarded)</p> <table border="1"> <thead> <tr> <th>Topic</th> <th>Name of the student</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Study of complete and Incomplete fusion dynamics induced by heavy ions above the coulomb barrier.</td> <td>Dr. Sneha Bharti Linda</td> <td>Awarded 2018</td> </tr> <tr> <td>Investigation of break-up fusion and its dependency on target deformation at energies 3-7 MeV/nucleon</td> <td>Dr. Pankaj Kumar Giri</td> <td>Awarded 2021</td> </tr> <tr> <td>Probing of Incomplete Fusion and Fusion-Fission Dynamics Induced by Heavy Ions at Energies Above the Coulomb Barrier.</td> <td>Dr. Amritraj Mahato</td> <td>Awarded 2023</td> </tr> <tr> <td>Study of Incomplete Fusion Dynamics and Role of Various Entrance Channel parameters at energy above the Coulomb barrier</td> <td>Mr. Nitin Sharma</td> <td>Ongoing</td> </tr> <tr> <td>Study of breakup fusion induced by α-cluster and non α-cluster projectiles with medium mass targets</td> <td>Mr. Lupteindu Chhura</td> <td>Ongoing</td> </tr> <tr> <td>Study of fusion reaction dynamics and entrance channel effects using heavy ion projectile</td> <td>Mr. Rajesh Kumar Sahoo</td> <td>Ongoing</td> </tr> <tr> <td>Reaction Dynamics in Spherical and Deformed Targets Using Heavy Ions Beam at Energy Above the Coulomb Barrier</td> <td>Mr. Rahul Mahato</td> <td>Ongoing</td> </tr> </tbody> </table>	Topic	Name of the student	Status	Study of complete and Incomplete fusion dynamics induced by heavy ions above the coulomb barrier.	Dr. Sneha Bharti Linda	Awarded 2018	Investigation of break-up fusion and its dependency on target deformation at energies 3-7 MeV/nucleon	Dr. Pankaj Kumar Giri	Awarded 2021	Probing of Incomplete Fusion and Fusion-Fission Dynamics Induced by Heavy Ions at Energies Above the Coulomb Barrier.	Dr. Amritraj Mahato	Awarded 2023	Study of Incomplete Fusion Dynamics and Role of Various Entrance Channel parameters at energy above the Coulomb barrier	Mr. Nitin Sharma	Ongoing	Study of breakup fusion induced by α -cluster and non α -cluster projectiles with medium mass targets	Mr. Lupteindu Chhura	Ongoing	Study of fusion reaction dynamics and entrance channel effects using heavy ion projectile	Mr. Rajesh Kumar Sahoo	Ongoing	Reaction Dynamics in Spherical and Deformed Targets Using Heavy Ions Beam at Energy Above the Coulomb Barrier	Mr. Rahul Mahato	Ongoing
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Brief introduction:	<p>Dr. Dharmendra Singh has research expertise is in the field of nuclear reaction dynamics using heavy ion accelerator facilities. He obtained his M.Phil and Ph.D. in Experimental Nuclear Physics from the Aligarh Muslim University, Aligarh in 2003 and 2008 respectively. He has been working on the light and heavy-ion induced reactions at energy above the Coulomb barrier, since past 15 years. He has performed many nuclear physics experiments using the national accelerator facilities like Cyclotron of VECC, Kolkata, 15 UD Pelletron accelerator of Inter University Accelerator Centre (IUAC), New Delhi, and Tata institute of fundamental research (TIFR), Mumbai, etc. His work on the study of incomplete</p>																								

	<p>fusion dynamics has been widely referred. He has been/is the principal investigator of a number of scientific projects approved by the national funding agencies viz, UGC, DST, IUAC and UGC-DAE CSR, Kolkata Centre. He has published more than 58 research papers in journals of national and international repute. He has collaborations with many leading research labs of nuclear physics all over the country and abroad. He is a recipient of the DST young scientist award. He has organized many national and international workshops, conferences, mini schools and faculty development programs. Under his guidance three Ph.D. students have been awarded degrees and eighty-three M.Sc. students have completed their dissertation work. Additionally, four PhD scholars are currently pursuing their PhD work and seven M.Sc. students are doing their project or dissertation work under his supervision.</p>
<p>Project (Completed/ Ongoing)</p>	<ol style="list-style-type: none"> 1. Role of target deformation on incomplete fusion dynamics in energy range 3-8 MeV/nucleon funded by Department of Science and Technology (DST), New Delhi, India, Duration: 2011-2015 (Ref. No. SR/FTP/PS- 005/2011 dated 5th October 2011), Status: Completed (Principal Investigator) 2. Role of Target Deformation on Incomplete Fusion dynamics during heavy Ion Collisions funded by Inter University Accelerator Centre (IUAC), New Delhi, India, Duration: 2013-2016 (Ref. No. IUAC/XIII.3A dated 17th July 2013), Status: Completed (Principal Investigator) 3. Study of Complete and Incomplete Fusion Dynamics by Using Heavy Ion Beams funded by University Grant Commission (U.G.C), New Delhi, India, Duration: 2013-2015 [Ref. No. F.30-14/2014(BSR) dated July 2014], Status: Completed (Principal Investigator) 4. Study of Incomplete Fusion Dynamics and Role of Various Entrance Channel parameters at energy above the Coulomb barrier, funded by UGC-DAE-CSR, Kolkata Center [Reference: UGC-DAE-CSR-KC/CRS/19/NP16/0927; dated 10th May 2019] Status: Completed (Principal Investigator) 5. Study of various entrance channel effects on the population of angular momentum values in incomplete fusion, funded by UGC-DAE-CSR, Kolkata Center [Reference- CRS/2021-22/02/478, dated: 30th March 2022] Status: Ongoing (Principal Investigator)

Collaboration/ Research Relation:	(1) Inter University Accelerator Centre (IUAC), New Delhi, INDIA (2) Variable Energy Cyclotron Centre (VECC), Kolkata, INDIA (3) Tata Institute of Fundamental Research (TIFR), Mumbai, INDIA (4) Bhabha Atomic Research Centre (BARC), Mumbai, INDIA (5) UGC-DAE Consortium for Scientific Research, Kolkata, INDIA (6) Aligarh Muslim University, Aligarh (U.P), INDIA (7) Joint Institute for Nuclear Research (JINR), Dubna, Russia (8) Jagiellonian University in Krakow, Poland (9) Grand Accélérateur National d'Ions Lourds (GANIL), France																																															
Reviewer of papers in different International Journals:	<table border="1"> <thead> <tr> <th data-bbox="402 730 483 814">S. 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Articles Published/ Accepted:	<p>List of Publications in National and International Journals:</p> <ol style="list-style-type: none"> 1. Nitin Sharma, Dharmendra Singh, Amritraj Mahato, Rajesh K. Sahoo, Lupteindu Chhura, Pankaj K. Giri & Sneha B. Linda, Harish Kumar, Suhail A. Tali & M. Afzal Ansari, Rahbar Ali, Sushil Kumar, I. Ahmed, Yashraj, R. Kumar, K. S. Golda, S. Muralithar & R. P. Singh, "Evidence of compound nucleus theory in the population of incompletely fused composite system $^{160}\text{Dy}^*$", European Physical Journal A, Volume 60, 72 (2024). https://doi.org/10.1140/epja/s10050-024-01293-8 2. Suhail A Tali, Harish Kumar, M Afzal Ansari, D Singh, Rahbar Ali, Pankaj K Giri, Sneha B Linda, Amritraj Mahato, Nabendu Kumar Deb, R Kumar, RN Ali, "Comprehension of breakup fusion reactions using forward recoil range distribution measurements", Nuclear Physics A, Volume 1042, February 2024, 122809 (2024) https://doi.org/10.1016/j.nuclphysa.2023.122809 3. Rajesh K. Sahoo, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Jagatjyoti Mohapatra, Lupteindu Chhura, Rahul Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Asif Ali, Rahbar Ali, S. Kumar, Nabendu K. Deb, N.P.M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralithar, R.P. Singh, "Breakup Fusion of ^{180}O with ^{144}Sm". Journal of Polymer & Composites, Vol. 11, Sp. Issue 7, 2023. 4. Nitin Sharma, Dharmendra Singh, Amritraj Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, I. Ahmed, S. Kumar, Yashraj, R. Kumar, K. S. Golda, S. Muralithar, R. P. Singh, "Role of incomplete fusion in production of ^{155}Tb", Journal of Radioanalytical and Nuclear Chemistry, (2023) https://doi.org/10.1007/s10967-023-09111-z 5. Rahbar Ali, D Singh , Suhail A Tali , Harish Kumar , Mohd Asif Khan , Nitin Sharma , Jagat Jyoti Mohapatra , Lupteindu Chhura , M Afzal Ansari , M H Rashid , R Guin , S K Das , Rakesh Kumar & S Muralithar, "Systematic Study of Incomplete Fusion Dynamics with Various Entrance Channel Parameters", Indian Journal of Pure & Applied Physics, Vol. 61, August 2023, pp. 697-703 DOI: 10.56042/ijpap.v61i8.1327 6. Amritraj Mahato, Dharmendra Singh, Nitin Sharma, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Asif Ali, M. Afzal Ansari, Nabendu Kumar Deb, N. P. M. Sathik, S. Kumar, R. Kumar, S. Muralithar, and R. P. Singh, "Disentangling fractional momentum transfer in the $^{19}\text{F} + ^{154}\text{Sm}$ system." Physical Review C , 107, 014601(2023) https://doi.org/10.1103/PhysRevC.107.014601 		

7. Amritraj Mahato, Dharmendra Singh, Nitin Sharma, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali et al. "Effects of entrance channels on breakup fusion induced by F 19 projectiles." *Physical Review C* 106, no. 1 (2022): 014613. <https://doi.org/10.1103/PhysRevC.106.014613>
8. Rahbar Ali, D Singh, Harish Kumar, Suhail A Tali, Asif Khan, M Afzal Ansari, RP Singh, S Muralithar, 2021, " Projectile Break-up Effect on Fusion in $160+ 156\text{Gd}$ Reaction at Energy Range 4.3-6.3 MeV/A", *Indian Journal of Pure & Applied Physics*, 59: 103, ISSN: 0975-1041 <http://op.niscair.res.in/index.php/IJPAP/article/view/42188>
9. Amritraj Mahato, D Singh, Pankaj K Giri, Sneha B Linda, Harish Kumar, Suhail A Tali, M Afzal Ansari, R Kumar, S Muralithar, RP Singh, 2020, "Probing of incomplete fusion dynamics in $14\text{N}+124\text{Sn}$ system and its correlation with various entrance channel effects", *European Physical Journal A* 56: 131, ISSN: 1434-601X, <https://doi.org/10.1140/epja/s10050-020-00126-8>
10. Pankaj K Giri, Amritraj Mahato, D Singh, Sneha B Linda, Harish Kumar, Suhail A Tali, M Afzal Ansari, R Kumar, S Muralithar, RP Singh, 2020, "Disentangling of incomplete fusion dynamics at low energies $\approx 4-6$ MeV/A", *Indian Journal of Pure & Applied Physics* 58: 371, ISSN: 0975-1041, <http://nopr.niscair.res.in/handle/123456789/54750>.
11. Amritraj Mahato, Pankaj K Giri, D Singh, Nitin Sharma, Sneha B Linda, Harish Kumar, Suhail A Tali, Nabendu K Deb, M Afzal Ansari, R Kumar, S Muralithar, RP Singh, 2020, " Effect of projectile breakup in the system $19\text{F}+ 154\text{Sm}$ ", *Indian Journal of Pure & Applied Physics* 58: 386, ISSN: 0975-1041, <http://nopr.niscair.res.in/handle/123456789/54747>.
12. Pankaj K. Giri, Amritraj Mahato, D. Singh, Sneha B. Linda, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, R. Kumar, S. Muralithar, and R. P. Singh, 2019, "Examination of break-up fusion in the $160 + 148\text{Nd}$ system through measurements of forward recoil range distributions and angular distributions", *Physical Review C* 100: 054604, ISSN: 2469-9985, <https://doi.org/10.1103/PhysRevC.100.054604>.
13. D. Singh, Sneha B. Linda, Pankaj K. Giri, Amritraj Mahato, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, R. Kumar, S. Muralithar, and R.P. Singh, 2019, "Investigation of breakup fusion in $160 + 124\text{Sn}$ system and its correlation with various entrance channel parameters", *International Journal of Modern Physics E* 28: 09, ISSN: 0218-3013, <https://doi.org/10.1142/S0218301319500691>.
14. Pankaj K. Giri, D. Singh, Amritraj Mahato, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Siddharth Parasari, Asif Ali, M. Afzal Ansari, Rakesh Dubey, R. Kumar, S. Muralithar, and R. P. Singh, 2019, "Systematic study of low-energy incomplete-fusion dynamics in the $160 + 148\text{Nd}$ system: Role of target deformation", *Physical Review C* 100: 024621, ISSN: 2469-9985,

- <https://doi.org/10.1103/PhysRevC.100.024621>.
15. D. Singh, Pankaj K. Giri, Amritraj Mahato, Sneha B. Linda, R. Tripathi, Harish Kumar, M. Afzal Ansari, N.P.M. Sathik, Rahbar Ali, R. Kumar, S. Muralithar and R. P. Singh, 2019, "Probing incomplete fusion dynamics and role of the projectile deformation in $^{19}\text{F} + ^{154}\text{Sm}$ system", *European Physical Journal A* 55: 164, ISSN: 1434-601X, <https://doi.org/10.1140/epja/i2019-12860-9>.
 16. Suhail A. Tali, Harish Kumar, M. Afzal Ansari, Asif Ali, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, R. Kumar, Siddharth Parashari, S. Muralithar, and R. P. Singh, 2019, "Systematic study of the break-up fusion process in the $^{12}\text{C} + ^{165}\text{Ho}$ system and interplay of entrance channel parameters", *Physical Review C* 100: 024622, ISSN: 2469-9985, <https://doi.org/10.1103/PhysRevC.100.024622>.
 17. Pankaj K Giri, Amritraj Mahato, D Singh, Sneha B Linda, Harish Kumar, Suhail A Tali, R Ali, N P M Sathik, M Afzal Ansari, R Kumar, S Muralithar & R P Singh, 2019, "Incomplete momentum transfer in $^{16}\text{O} + ^{148}\text{Nd}$ system at energy ≈ 5.8 MeV/nucleon", *Indian Journal of Pure & Applied Physics* 57: 619, ISSN: 0975-1041, <http://nopr.niscair.res.in/handle/123456789/50539>.
 18. Pankaj K Giri, Amritraj Mahato, D Singh, Sneha B Linda, Abhilash S R, Nabendu K Deb, G R Umapathy, S Ojha, D Kabiraj & S Chopra, 2019, "Fabrication and characterization of enriched $^{154,144}\text{Sm}$ and $^{142,148}\text{Nd}$ targets on Al-backing for Nuclear Physics Experiments at IUAC, New Delhi, India", *Indian Journal of Pure & Applied Physics* 57: 675, ISSN: 0975-1041, <http://nopr.niscair.res.in/handle/123456789/50524>.
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<p>Papers published /presented/abstracted in National/International conference/conference proceedings etc.;</p>	<p>Papers published/presented /abstracted in National/International conference/conference proceedings etc.; (Total no. of papers- 124)</p> <p>1. Rahul Mahato, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Lupteindu Chhura, Rajesh Kumar Sahoo, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Rahbar Ali, S. Kumar, Nabendu K. Deb, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh, "Identification of evaporation residues populated through complete and incomplete fusion in $^{16}\text{O} + ^{154}\text{Sm}$ system". Paper presented and abstract published on Proceedings of the 67th DAE Symposium on Nuclear Physics (2023), organized by Indian Institute of Technology Indore, Madhya Pradesh during December 09-13, 2023.</p>

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	<p>during 12-16 December, 2005.</p> <p>120. D. Singh, R. Ali, M. H. Rashid and M. Afzal Ansari. 2004. "Study of Complete and Incomplete Fusion in $^{20}\text{Ne} + ^{59}\text{Co}$ System", Paper presented and abstract published on page 248 of the Proceedings of the DAE Symp. On Nucl. Phys., organized by Banaras Hindu University, Varanasi, India during 6-10, December. 2004.</p> <p>121. D. Singh, R. Ali, M. H. Rashid and M. Afzal Ansari. 2004. "Reaction Mechanism Study in ^{20}Ne-induced Reactions with ^{124}Sn by Excitation Function Measurement". Paper presented and abstract published on page 278 of the Proceedings of the DAE Symp. On Nucl. Phys., organized by Banaras Hindu University, Varanasi, India during 6-10, December. 2004.</p> <p>122. D. Singh, G. N. Dar, R. Ali, N. P. M. Sathik, M. Ismail and M. Afzal Ansari. 2003. "Study of $^{160}\text{Dy} + ^{45}\text{Sc}$ System below 7 MeV/nucleon", Paper presented and abstract published on page 218 of the Proceedings of the DAE Symp. On Nucl. Phys., organized by Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, India during 8-12 December, 2003.</p> <p>123. D. Singh, M. Afzal Ansari, M. Ismail and N. P. M. Sathik. 2002. "Measurement Excitation Function in $^{160}\text{Dy} + ^{74}\text{Ge}$ reactions", Paper presented and abstract published on page 244 of the Proceedings of the DAE Symp. on Nucl. Phys., organized by Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India during 26-30, December, 2002.</p> <p>124. D. Singh, N. P. M. Sathik, M. Afzal Ansari, M. Ismail and M. H. Rashid. 2001. "Excitation Function for the Reaction $^{159}\text{Tb}(\alpha, 2n)^{161}\text{Ho}$", Paper presented and abstract published on page 218 of the Proceedings of the DAE Symp. On Nucl. Phys., organized by Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata -700064, India during December, 2001.</p>
<p>Publications in Research\Technical Reports :</p>	<ol style="list-style-type: none"> 1. D. Singh, Sneha B. Linda, Pankaj K. Giri, Amritraj mahato, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, Asif Ali, Rahbar Ali, Nabendu Deb, R. Kumar, S. Muralithar, and R. P. Singh, Probing of break-up fusion at energy above the coulomb barrier using IUAC facilities, Annual Report 2017-18, page 104-105. 2. Suhail A. Tali, Harish Kumar, M. Afzal Ansari, Asif Ali, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, Siddharth Parashari, R. Kumar, R. P. Singh, and S. Muralidhar, Study of break-up fusion reaction using ^{13}C ion beam in the energy range of 4-7 MeV/nucleon, Annual Report 2017-18, page 108-109. 3. Harish Kumar, Suhail A Tali, Siddharth Parashari, Asif Ali, M. Afzal Ansari, D. Singh, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar, Observation of incomplete fusion contribution below l_{crit}, Annual Report 2014-15, page 110-112. 4. M. Kumar Raju, D. Negi, S. Muralither, R. P. Singh, R. Kumar, Indu Bala, T. Trivedi, A. Dhal, K. Rani, R. Gurjar, D. Singh, J. Kaur, R. Palit, B. S. Naidu, S. Saha, J. Sethi and R. Donthi, High spin spectroscopy in ^{105}Cd, IUAC, Annual Report 2013-14, page 102-103. 5. T. Trivedi, D. Negi, M. Kumar Raju, S. Muralither, R. P. Singh, R. Kumar, Indu

- Bala, K. Rani, R. Gurjar, A. Dhal, D. Singh, R. Palit, B. S. Naidu, S. Saha, J. Sethi, R. Donthi and S. Jadhav, Study of shears mechanism at low deformation in ^{105}In , IUAC, Annual Report 2013-14, page 104-105.
6. A. Yadav, V. R. Sharma, P. P. Singh, M. K. Sharma, D. P. Singh, Unnati, V. Singh, D. Singh, R. Kumar, B. P. Singh, R. Prasad, and R. K. Bhowmik, A study of incomplete fusion reaction dynamics in $^{12}\text{C} + ^{159}\text{Tb}$ system at $\approx 4\text{-}7$ MeV/A, IUAC Annual Report (2010-2011) 154.
7. D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, P. P. Singh, M. K. Sharma, B. P. Singh, R. K. Sinha, R. Kumar, S. Muralithar, R. P. Singh and R. K. Bhowmik, Observation of Pre-equilibrium particle emission by measurement of yield ratio, IUAC Annual Report (2010)131.
8. D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, P. P. Singh, M. K. Sharma, B. P. Singh, R. K. Sinha, R. Kumar, S. Muralithar, R. P. Singh and R. K. Bhowmik, Incomplete fusion dynamics in $^{160}\text{Gd} + ^{124}\text{Sn}$ system by spin distribution measurement, IUAC Annual Report (2009-2010)128.
9. A. Singh, A. Shukla, D. Singh, Abhilash. S. R., D. Kabiraj and D. K. Avasthi, Isotopic tin target fabrication at IUAC, IUAC Technical Report IUAC/TR/AS/2009-10/09.
10. R. Ali, D. Singh, Dipti Pachouri, M. Afzal Ansari, M. K. Sharma, Unnati, P. P. Singh, D. P. Singh, P. D. Shidling, B. P. Singh, Rakesh Kumar, R. P. Singh, S. Muralithar, R. Prasad and R. K. Bhowmik, Spin Distribution Studies of evaporation residues produced through complete and incomplete fusion in the collision of $^{160}\text{Gd} + ^{160}\text{Gd}$ @ 90 MeV, IUAC Annual Report (2007-2008) 127.
11. P. P. Singh, B. P. Singh, Unnati, M. K. Sharma, D. P. Singh, R. Kumar, P. D. Shidling, D. Singh, Abhishek Yadav, R. Ali, R. P. Singh, S. Muralithar, M. A. Ansari, H. D. Bhardwaj, R. Prasad, and R. K. Bhowmik, Disentangling of complete and incomplete fusion: Spin distribution measurement at 4-7 MeV/nucleon, IUAC Annual Report (2007-2008) 124.
12. D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, P. P. Singh, M. K. Sharma, Unnati, B. P. Singh, R. K. Sinha, Rakesh Kumar, S. Muralithar, R. P. Singh and R. K. Bhowmik, Study of complete and incomplete fusion dynamics in $^{160}\text{Gd} + ^{124}\text{Sn}$ system at 6.3 MeV/nucleon energy by measurement of spin distributions, IUAC Annual Report (2007-2008) 121.
13. P. P. Singh, B. P. Singh, Unnati, M. K. Sharma, D. P. Singh, R. Kumar, P. D. Shidling, D. Singh, J. K. Rana, P. S. Rao, R. Ali, R. P. Singh, S. Muralithar, M. Afzal Ansari, H. D. Bhardwaj, R. Prasad, and R. K. Bhowmik, Spin distribution studies at $E/A \approx 4\text{-}7$ MeV: a sensitive probe for incomplete fusion dynamics, IUAC Annual Report (2006-2007) 135.
14. P. P. Singh, B. Sharma, Unnati, D. Singh, M. K. Sharma, B. P. Singh, M. Afzal Ansari, H. D. Bhardwaj, R. Prasad, Rakesh Kumar, K. S. Golda, R. P. Singh, S. Muralithar and R. K. Bhowmik, Study of Incomplete Fusion Reaction Dynamics: Observation of Fast Alpha Particles in Forward Cone, IUAC Annual Report (2005-2006) 141.
15. D. Singh, M. Afzal Ansari, Golda K. S., Pankaj Kumar, P. Sugathan, S.

	Muralither, R.K. Bhowmik, Study on Complete and Incomplete Fusion Reactions. IUAC Annual Report (2004-2005) 96.
Conferences/ Symposia/Workshop etc Organized:	<ol style="list-style-type: none"> 1. One week Orientation Program in Natural Sciences for Teachers of Senior Secondary Schools (OPNST-2022) Organized by Department of Physics, Central University of Jharkhand, Ranchi, Jharkhand during 25th-30th April, 2022 (Convener). 2. National Science Day (NSD)-2022 on the theme "Sustainable Energy and Society" Organized by Department of Physics, Central University of Jharkhand, Ranchi, Jharkhand on 28th February 2022 (Co-ordinator). 3. 29th edition of the national conference on Condensed Matter Physics "Condensed Matter Days 2021" (CMDAYS-21) organized by the Department of Physics, Central University of Jharkhand, Ranchi, India during 10-12th December, 2021. (Local Advisory Committee) 4. "Awareness Meeting of UGC-DAE CSR on Utilization of in-house and large-scale DAE facilities" organized by the Indore Centre in collaboration with Department of Physics, CUJ, Ranchi and A.N. College, Patna on 2nd August 2021. (Coordinator) 5. Successfully Convened the Web Based Course On "Radiation Detectors: A How to Approach" organized by Department of Physics, Central University of Jharkhand, Ranchi in collaboration with UGC-DAE-Consortium for Scientific Research, Kolkata Centre, Kolkata, during 5th to 9th April 2021. (Convener). 6. National Science Day (NSD)-2021 on the theme "The Science We Live By An Inclusive Principle" Organized by Department of Physics, Central University of Jharkhand, Ranchi, Jharkhand on 28th February, 2021. (Co-ordinator) 7. National Webinar on "Research Opportunities Over the Horizon in Physical Sciences", organized by the Department of Physics Central University of Jharkhand, Ranchi, in collaboration with Indian Association of Physics Teachers (IAPT), RC-20, India on 2nd October 2021. (Program Convener). 8. "Online Lecture Series on Advances in Physical Sciences" organized by the Department of Physics Central University of Jharkhand, Ranchi during 9th-13th August 2021 (Convener). 9. ATAL Online Faculty Development Program On Photonics, organized by Department of Physics, Central University of Jharkhand (CUJ), Ranchi during 18- 22 January, 2021. (Co-coordinator). 10. Online Faculty Development Program On "Quest Abound with Radiation Around: A Webinar on Cross Disciplinary Endeavours in Radiation Science", organized by Department of Physics, Central University of Jharkhand (CUJ), Ranchi during 7 -11 December, 2020. (Convener). 11. AIU East Zone Vice Chancellors' Meet 2019-20, hosted by the Central University of Jharkhand (CUJ), Ranchi under the auspices of the Association of Indian Universities (AIU) during December19-20, 2019. The theme of the meet is "Towards Global Best Teaching-Learning process in Indian Higher Education". (Nodal Officer). 12. International Conference on Nuclear, Particle and Accelerator Physics

- (ICNPAP-2018) during October 23-26, 2018 at Department of Physics, Central University of Jharkhand, Brambe, Ranchi, Jharkhand. (Convener).
13. National Conference on Nuclear and Accelerator Physics (NCNAP-2016) during October 4-6, 2016 at Centre for Applied Physics, Central University of Jharkhand, Brambe, Ranchi, Jharkhand. (Convener).
 14. National Workshop on Radiation- A Powerful Tool for Research in Physical, Chemical and Life Sciences at Centre for Applied Physics, Central University of Jharkhand, Ranchi-835205 during 13th February 2013 to 15th February 2013 (Coordinator).
 15. Acquaintance Programme on Inter University Accelerator Centre, New Delhi at Centre for Applied Physics, Central University of Jharkhand, Ranchi-835205 on November 23, 2012 (Secretary).
 16. Awareness Lecture on Scheme for Trans-disciplinary Research for India's Developing Economy (STRIDE), by Prof. B. K. Singh, (Dept. of Physics, BHU) National Project Coordinator, STRIDE Cell on 8th August 2019 at Central University of Jharkhand, Brambe, Ranchi, Jharkhand. (Coordinator).
 17. Mini-School on Advanced Experiments in Physical Sciences, for the 9th semester students of Five Years Integrated M.Sc. (Applied Physics) at UGC-DAE CSR, Kolkata Centre, Kolkata, during November 15-25, 2016. (Coordinator).
 18. Mini-School on Advanced Experiments in Physical Sciences, for the 9th semester students of Five Years Integrated M.Sc. (Applied Physics) at UGC-DAE CSR, Kolkata Centre, Kolkata, 2017. (Coordinator).
 19. Mini-School on Advanced Experiments in Physical Sciences, for the 9th semester students of Five Years Integrated M.Sc. (Applied Physics) at UGC-DAE CSR, Kolkata Centre, Kolkata, 2018. (Coordinator).
 20. Demo show/stage show of Prof. Marwaha at the Centre on April 5, 2016 (Coordinator).
 21. XXXIII Annual IAPT Convention 2018 & National Symposium on Innovations and Excellence In Physics Teaching & Research (29-31, October, 2018) at Ranchi University, Ranchi (Member)
 22. AICTE training and Learning (ATAL) academy program on "3D Printing and Design (ATAL-3DPD)" during 3-7 feb. 2020, Organized by Dept. of Nanoscience and Technology, Central University of Jharkhand, Ranchi (Member-Local Organizing Committee)
 23. National Conference on Recent Trends in Nanotechnology (NANO-2019), during 4-5 October 2019, Organized by Dept. of Applied Science, Samrat Ashok Technological Institute, Vidisha, MP (Member-National Advisory Committee)
 24. Anveshan: Student Research Convention for Eastern Zone, during 18-19 February 2019, Organized by Association of Indian Universities, New Delhi & Central University of Jharkhand, Ranchi (Member- Local Organizing Committee)
 25. International conference on environmental challenges and sustainability (ICECS 2018) at central University of Jharkhand, Ranchi - 31st Oct to 2nd Nov, 2018 (Member)

	<p>26. Member of Nuclear Track Society of India</p> <p>27. Member of Indian Association of Physics Teachers</p> <p>28. Returning officer for elections of the member of regional council IAPT, Jharkhand (Region-20) tenor from 1st January 2016 to 31st December 2016.</p> <p>29. Guest Editor of special issues (August & September, 2019 volumes) of Indian Journal of Pure and Applied Physics, CSIR, New Delhi.</p>
<p>Participation in Conferences / Seminars / Workshops / Summer and Winter Schools</p>	<ol style="list-style-type: none"> 1. Participated in DAE-BRNS <i>Symposium on Nuclear Physics</i>, Department of Physics, M. S. University, Triunelveli, Tamilnadu, India, during Dec. 26-30, 2002. 2. Participated in the workshop on <i>“Radiation Detectors”</i> at Inter University Accelerator Centre, New Delhi, India during March 14, 2003. 3. Participated in <i>DAE-BRNS Symposium on Nuclear Physics</i>, BARC, Mumbai, India during Dec. 8-12, 2003. 4. Participated in DAE-BRNS <i>Symposium on Nuclear Physics</i>, Department of Physics, Banaras Hindu University, Varanasi, India during Dec. 6-10, 2004. 5. Participated in the workshop on <i>“Accelerator Mass Spectroscopy”</i> Inter University Accelerator Centre, New Delhi, India during Sep. 23, 2005. 6. Participated in the 14th National Symposium on <i>“Solid State on Nuclear Track Detectors”</i>, Department of Applied Physics, Z. H. College of Engineering & Technology, Aligarh Muslim University, Aligarh, India during Nov. 10-12, 2005. 7. Participated in the one day Pre-Symposium Orientation Programme on <i>“Computational Techniques in Nuclear Reactions”</i> Training School Hostel, Anushakti Nagar, BARC, Mumbai, India during Dec. 11, 2005. 8. Participated in DAE-BRNS <i>Symposium on Nuclear Physics</i>, BARC, Mumbai, India during Dec. 12-16, 2005. 9. Participated in the <i>“Seminar on Physics with Accelerators”</i> Inter University Accelerator Centre, New Delhi, India during April 21, 2006. 10. Participated in DAE-BRNS <i>“Symposium on Nuclear Physics”</i>, MS, University Baroda, Vadodara, India during Dec. 11-15, 2006. 11. Participated in DAE-BRNS <i>“Symposium on Nuclear Physics”</i>, Sambalpur University, Sambalpur, Burla, Orissa, India during Dec. 11-15, 2007. 12. Participated in DAE-BRNS <i>“Workshop on Hadron Physics”</i>, Aligarh Muslim University, Aligarh, India during Dec. 18-23, 2008. 13. Participated in National Science Day Celebrations and presented orally a paper entitled <i>“Spin Distribution Studies for Incomplete Fusion Reaction in $^{160}\text{Pb} + ^{124}\text{Sn}$ Collisions at Projectile Energy $\approx 6\text{MeV/Nucleon}$”</i>, Aligarh Muslim University, Aligarh, India during Dec. 2008. 14. Participated in <i>“School cum Workshop on Nuclear Yrast and Near Yrast Spectroscopy”</i>, Indian Institute of Technology (IIT), Roorkee, India during Oct. 26-30, 2009. Participated in the <i>“National Conference on</i>

	<p><i>Accelerator and Low Level radiation safety</i>" Inter University Accelerator Centre, New Delhi, India during Nov. 18-20, 2009.</p> <p>15. Participated in DAE-BRNS <i>International Symposium on Nuclear Physics</i>, BARC, Mumbai, India during <i>Dec.</i> 8-12, 2009.</p> <p>16. Participated in Workshop on <i>Nuclear Reaction Mechanism</i>, Punjab University, Chandigarh, India during March 17-19, 2010.</p> <p>17. Participated in User Workshop at Inter University Accelerator Centre, New Delhi, India during July 6-7, 2010.</p> <p>18. Participated in Seminar on Contemporary trends on Nuclear Physics", Aligarh Muslim University, Aligarh, India during Oct. 20-21, 2010.</p> <p>19. Participated in DAE-BRNS <i>Symposium on Nuclear Physics</i>, Birla Institute of Technology & Science, Pilani, India during <i>Dec.</i> 20-24, 2010.</p> <p>20. Participated in DAE-BRNS <i>Symposium on Nuclear Physics</i>, Andhra University, Visakhapatnam, Andhra Pradesh, India during <i>Dec.</i> 26-30, 2011.</p> <p>21. Participated in Seminar Frontiers in Gamma Ray Spectroscopy (FIG12) at at Inter University Accelerator Centre, New Delhi, India during March 5-7, 2012.</p> <p>22. Participated in Accelerator Users workshop at Inter University Accelerator Centre (IUAC), New Delhi during July 6-8, 2013.</p> <p>23. Participated in DAE-BRNS <i>International Symposium on Nuclear Physics</i>, BARC, Mumbai, India during <i>Dec.</i> 2-6, 2013.</p> <p>24. Participated in VI <i>International Conference Fusion14, Inter University Accelerator Centre, New Delhi</i>, India during Feb. 24-28, 2014.</p> <p>25. Participated in "Group Monitoring Workshop on DST Fast Track Proposals" IISER Bhopal during April 11-12, 2014.</p> <p>26. Participated in DAE-BRNS <i>Symposium on Nuclear Physics</i>, Department of Physics, BHU, Varanasi, India during <i>Dec.</i> 8-12, 2014.</p> <p>27. Participated in Accelerator Users workshop at Inter University Accelerator Centre (IUAC), New Delhi during July 5-8, 2015.</p> <p>28. Participated in <i>National Conference on Recent Trends in Nuclear Physics</i>, Department of Physics, AMU, Aligarh, India during February 15-16, 2016.</p> <p>29. Participated in Two day fission workshop on fission studies with Neutron Detector Array/GPSC facility" at IUAC, New Delhi during March 28-29, 2016.</p> <p>30. Participated in DAE-BRNS <i>Symposium on Nuclear Physics at Saha Institute of Nuclear Physics (SINP), Kolkata</i>, India during <i>Dec.</i> 5-9, 2016.</p> <p>31. Participated in <i>Accelerator Users Workshop</i> at Inter University Accelerator Centre (IUAC), New Delhi during December 16-18, 2016.</p> <p>32. Participated in 66th <i>Accelerator Users Workshop</i> at Inter University Accelerator Centre (IUAC), New Delhi during July 05-07, 2019.</p>
Any other information:	Refresher Courses / Training programs

	<ol style="list-style-type: none"> 1. Participated in "Orientation Programme for Researchers using Heavy Ion Accelerator" at Inter University Accelerator Centre, New Delhi, India during October 8-13, 2001. 2. Participated in "94th Orientation Programme" at UGC Academic staff college, University of Rajasthan, Jaipur during September 1, 2014 to September 27, 2014. 3. Participated in Four Week 1st Refresher Course in Physics, during October 5-30, 2015 at HRDC, JNU, New Delhi. 4. Participated in Refresher Course in Physics, during November 12 to December 02, 2018 at UGC-HRDC, University of Allahbad, India 5. Participated in Massive Open Online Course on Teaching Excellence, held during 1-30 November 2019 organized by ICAR-National Academy of Agricultural Research Management, Hyderabad-500030, Telangana, India 6. Participated in AICTE Training And Learning (ATAL) Academy FDP on "Robotics" from 16-12-2019 to 20-12-2019 at Central University of Jharkhand. 7. Participated in AICTE training and Learning (ATAL) academy program on "3D Printing and Design (ATAL-3DPD)" during 3-7 Feb. 2020 , Organized by Dept. of Nanoscience and Technology, Central University of Jharkhand, Ranchi. 8. Participated in One week Online Short Term Course in Advances in High Energy Physics , during 18-22 September, 2020, organized by Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab (India). 9. Participated in Online FDP on "Recent Developments In Mathematical Sciences (RDMS)", during 6th-10th November 2020, organized by the Department of Mathematics, Central University of Jharkhand, Ranchi. 10. Participated in "Contemporary Advances in Bio-nanotechnology", during 02-06 November, 2020 organized by Department of Biotechnology, National Institute of Technology Andhra Pradesh. 11. Participated in Online Faculty Development Program on Applied Machine Learning and Its Applications with Python, during 14-27 October, 2020 Organized by EduxLabs (Esoir Business Solutions LLP). 12. Participated in the Online Lecture & Training Programme on "Faculty Development Programme-QIP" organised by Internal Quality Assurance Cell (IQAC), Central University of Jharkhand, Ranchi, India, held during 30th January -13thFebruary 2022. 13. Participated in the Online Faculty Development Program on "Research Methodology : Tools & Techniques" organized by IES University and IES college of Technology" on 20th to 22nd January, 2022.
Updated as on	11 th April 2024