

## CURRICULUM VITAE

### PERSONAL DETAILS

**Name** : **Dr. Suhail Ahmad Tali**  
**Email Address** : [amusuhailtali@gmail.com](mailto:amusuhailtali@gmail.com)  
**Mobile Number** : +91-9622130369  
**Date of Birth** : 10<sup>th</sup> January 1989  
**Sex** : Male  
**Marital Status** : Married  
**Nationality** : Indian  
**Permanent Address** : Nowgam, Rafiabad,  
 Baramulla, Jammu & Kashmir, India-193301



### ACADEMIC QUALIFICATIONS

Examination	University/Board	Year	Division (Percentage)
PhD Physics (Experimental Nuclear Physics)	Aligarh Muslim University, UP, India.	2019	Awarded
M.Sc (Physics)	Aligarh Muslim University, India	2013	First (63.79%)
B.Sc. (Physics)	Jamia Millia Islamia, New Delhi	2011	First (68.47%)
12 <sup>th</sup> Standard	J & K Board, India	2006	First (67.33%)
10 <sup>th</sup> Standard	J & K Board, India	2004	First (70.60%)

### FELLOWSHIPS AND AWARDS

- Received **DST PURSE JRF fellowship** from January 2016 to February 2019.
- **First Prize for poster presentation at Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions** held at Department of Physics, Aligarh Muslim University, Aligarh, India during March 02-04, 2020.
- Consolation **Prize for oral presentation on National Science Day Celebrations-2018**, held at Aligarh Muslim University, Aligarh, India.
- **Best poster presentation award in 'International conference in nuclear physics with energetic heavy ion beams'** held at Department of Physics, Panjab University Chandigarh, India from 15-18 March, 2017.
- **First position at District level science exhibition** held at DIET Sopore, J&K, India held on June 11, 2005.
- Certificate **awarded at Provincial level science exhibition** held at SIE Srinagar, J&K, India during 30<sup>th</sup> -31<sup>th</sup> August, 2005.

*Suhail*

**Research Field** : Experimental Nuclear Physics (Heavy Ion Nuclear Reactions)  
**Ph.D. Title** : Nuclear reaction studies in heavy ion induced reactions  
**Research Experience** : Nine Years including PhD Research.  
**Computer Efficiency** : MS Office, C++, LINUX  
**Experimental Experience** : I have performed/participated in **Seven OFF- BEAM Nuclear Physics Experiments** using 15 UD Pelletron Accelerator facilities at Inter-University Accelerator Centre (IUAC), New Delhi, (India).

## EXPERIENCE

S.No.	Designation	Institute	Date	Classes Taught
1	Teaching Assistant (Laboratory Classes)	Aligarh Muslim University, India	2014 to 2018	B.Sc.
2	Lecturer	Govt. Degree College Samba, J & K- India	07-09-2020 To 06-02-2021	B.Sc.
3	Lecturer	Islamic University of Science & Technology, (J & K)-India	17-02-2021 To 21-02-2022	M.Sc. & B. Tech.
4	Assistant Professor	Central University of Kashmir	22-02-2022 To 31-12-2022	B.Sc- M.Sc.
5	Assistant Professor	Central University of Kashmir	01-02-2023 To 08-04-2024	B.Sc- M.Sc.
6	Lecturer	University of Kashmir (Kupwara Campus)	09-04-2024 To Till Date	B.Sc- M.Sc.

## Subjects Taught

- Nuclear Physics at M.Sc. & B.Sc. Level
- Quantum Mechanics at B.Sc. Level
- Experimental Techniques at M.Sc. Level
- Research Methodology at M.Sc. Level
- Statistical Physics at M.Sc. Level
- Modern Physics at B. Tech. Level
- Mechanics at B.Sc. Level
- Raman Spectroscopy at M.Sc. Level
- Laboratory Classes to M.Sc. B.Sc. & B. Tech Students.

*Suhail*

**Conferences/Workshops/Seminars Attended:**

1. Participated in “National Conference on Low Energy Nuclear Reaction Dynamics” held from 07 to 09 March 2022, organized by **Department of Physics, Aligarh Muslim University, Aligarh.**
2. Participated in “27<sup>th</sup> International Conference of International Academy of Physical Sciences on Frontiers in Physics” held from 26<sup>th</sup> to 28<sup>th</sup> October 2021, organized jointly by **Department of Physics, IUST and Kashmir University.**
3. Participated in “Center for Nuclear Study Summer School 2020” held on Zoom on-line from 17<sup>th</sup> to 21<sup>st</sup> August 2020 by **University of Tokyo.**
4. Participated in the “Poster Presentation at Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions, held during March 02-04, 2020 at **Department of Physics A.M.U., Aligarh (India).**
5. Participated in the “Thesis Presentation at the 64<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics during December 23–27, 2019 at **University of Lucknow, UP (India).**
6. Participated in the “Poster Presentation at the 63<sup>th</sup> DAE-BRNS International Symposium on Nuclear Physics during December 10–14, 2018 at **BARC, Mumbai (India).**
7. Participated in the “Poster Presentation at the International Conference on Nuclear Particle and Accelerator Physics (ICNPAP-2018), held during October 23-26, 2018 at **Department of Applied Physics Central University of Jharkhand, Ranchi (India).**
8. Participated in the “Poster Presentation at the 62<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics during December 20–24, 2018 **TIET, Patiala Punjab (India).**
9. Participated in the “Poster Presentation at the International Conference in Nuclear Physics with Energetic Heavy Ion Beams held during 15-18 March, 2017 at **Department of Physics, Panjab University, Chandigarh-India.**
10. Participated in the 61<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics during December 05–09, 2016 at **Saha Institute of Nuclear Physics, Kolkata (India).**
11. Participated in the “Poster Presentation at the National Conference on Nuclear and Accelerator Physics (NCNAP-2016), held during October 4-6, 2016 at **Department of Applied Physics Central University of Jharkhand, Ranchi (India).**
12. Participated in the “Poster Presentation at the National Conference on Recent Trends in Nuclear Physics, held during February 15-16, 2016 at **Department of Physics A.M.U., Aligarh, UP, (India).**
13. Participated in the “Poster Presentation at the 60<sup>th</sup> DAE-BRNS Symposium on Nuclear Physics during December 07–11, 2015 **SSSIHL, Prasanthi Nilayam AP, (India).**
14. Participated in the “Poster Presentation at the 59<sup>th</sup> DAE-BRNS Symposium On Nuclear Physics during December 06–12, 2014, with an orientation course on December 07, 2014” Held at **Banaras Hindu University, Varanasi (India).**
15. Participated in the “Winter School On Accelerator, Nuclear & Particle Physics” held on March 29, 2014 to April 04, 2014 at the **Department of Physics, Banaras Hindu University, Varanasi (India).**



### Invited Talks/Oral Presentations In Conferences

<b>01</b>	Delivered an <b>oral presentation</b> entitled “ <b>Probing for the systematic behavior of incomplete fusion fraction and complete fusion suppression induced by <math>^{12,13}\text{C}</math> on various targets</b> ” at National Conference on Low Energy Nuclear Reaction Dynamics organized by Department of Physics Aligarh Muslim University from 7-9 March 2022.
<b>02</b>	Delivered an <b>invited talk</b> on “ <b>Systematic study of Break-up Fusion Reactions using Light Heavy-Ion Projectiles</b> ” in the 27 <sup>th</sup> International Conference of International Academy of Physical Sciences on “ <b>Frontiers in Physics</b> ” held from 26 <sup>th</sup> to 28 <sup>th</sup> October 2021, organized jointly by Department of Physics, Islamic University of Science & Technology and Kashmir University.
<b>03</b>	Delivered an <b>oral presentation</b> entitled “ <b>Probing for the systematic behavior of incomplete fusion reaction and complete fusion suppression induced by <math>^{12,13}\text{C}</math> on <math>^{165}\text{Ho}</math> target</b> ” in Center for Nuclear Study Summer School 2020 held from 17 <sup>th</sup> to 21 <sup>st</sup> August 2020 by University of Tokyo.
<b>04</b>	Delivered an <b>oral presentation</b> entitled “ <b>Comprehension of Incomplete Fusion Dynamics from Excitation Function Measurements</b> ” at the 61 <sup>th</sup> DAE-BRNS Symposium on Nuclear Physics during December 05–09, 2016 at Saha Institute of Nuclear Physics, Kolkata (India).

### List of Publications:

<b>(A) International (Peer reviewed) Journals [As First and Second Author]</b>	
<b>1.</b>	<b>Comprehension of break-up fusion reactions using forward recoil range distribution measurements</b> <b>Suhail A. Tali</b> , Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, Amritraj Mahato, Nabendu Kumar Deb, R. Kumar and R. N. Ali <b>Nuclear Physics A 1042 (2024) 122809.</b>
<b>2.</b>	<b>Systematic study of break-up fusion process in <math>^{12}\text{C} + ^{165}\text{Ho}</math> system and interplay of entrance channel parameters</b> <b>Suhail A. Tali</b> , Harish Kumar, M. Afzal Ansari, Asif Ali, D. Singh, RahbarAli, Pankaj K. Giri, Sneha B. Linda, R. Kumar, Siddharth Parashari, S. Muralithar and R. P.Singh <b>Phys. Rev. C 100 (2019) 024622.</b>
<b>3.</b>	<b>Role of alpha cluster over non alpha cluster projectile in low energy incomplete fusion reaction dynamics</b> <b>Suhail A. Tali</b> , Harish Kumar, M. Afzal Ansari, Asif Ali, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, R. Kumar, Siddharth Parashari, R. P. Singh and S. Muralithar <b>Indian Jour. Pure and Appl. Phys. 57 (2019) 544.</b>
<b>4.</b>	<b>Study of incomplete fusion reaction dynamics in <math>^{13}\text{C} + ^{165}\text{Ho}</math> system and its dependence on various entrance channel parameters</b> <b>Suhail A. Tali</b> , 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. Muralithar <b>Nucl. Phys. A 970 (2018) 208.</b>



5.	<p><b>Systematic study of incomplete-fusion dynamics below 8 MeV/nucleon energy</b>          Harish Kumar, <b>Suhail A. Tali</b>, M. Afzal Ansari, D. Singh, Rahbar Ali, Asif Ali, Siddharth Parashari, Pankaj. K. Giri, Sneha B. Linda, R. Kumar, R. P. Singh and S. Muralithar          Phys. Rev. C <b>99</b> (2019) 034610.</p>
6.	<p><b>Study of break-up fusion process from forward recoil range distribution measurement</b>          Harish Kumar, <b>Suhail A. Tali</b>, M. Afzal Ansari, Rahbar Ali, D. Singh, Naseef M.P.N, R. Kumar, K. S. Golda, R. P. Singh and S. Muralithar          Indian Jour. Pure and Appl. Phys. <b>57</b> (2019) 540.</p>
7.	<p><b>Sensitivity of low-energy incomplete fusion to various entrance-channel parameters</b>          Harish Kumar, <b>Suhail A. Tali</b>, M. Afzal Ansari, D. Singh, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, Asif Ali, Siddharth Parashari, R. Dubey, Indu Bala, R. Kumar, R. P. Singh and S. Muralithar          Eur. Phys. J. A <b>54</b> (2018) 47.</p>
8.	<p><b>Investigation of incomplete fusion dynamics at energy 4-8 MeV/nucleon</b>          Harish Kumar, <b>Suhail A. Tali</b>, M. Afzal Ansari, D. Singh, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, Siddharth Parashari, Asif Ali, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar          Nucl. Phys. A <b>960</b> (2017) 53.</p>
<b>International (Peer reviewed) Journals [In Addition to First and Second Author]</b>	
9.	<p><b>Systematic study of incomplete fusion dynamics with various entrance channel parameters</b>          Rahbar Ali, D. Singh, <b>Suhail A. Tali</b>, 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 &amp; S. Muralithar          Indian Jour. Pure and Appl. Phys. <b>61</b> (2023) 697.</p>
10.	<p><b>Role of incomplete fusion in production of <math>^{155}\text{Tb}</math></b>          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          Journal of Radioanalytical and Nuclear Chemistry <b>332</b> (2023)1-6.</p>
11.	<p><b>Disentangling fractional momentum transfer in <math>^{19}\text{F} + ^{154}\text{Sm}</math> system</b>          Amritraj Mahato, Dharmendra Singh, Nitin Sharma, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b>, M. Afzal Ansari, Asif Ali, Nabendu Kumar Deb, N. P. M. Sathik, S. Kumar, R. Kumar, S. Muralithar, and R. P. Singh          Phys. Rev. C <b>107</b> (2023) 014601</p>
12.	<p><b>Effects of entrance channels on breakup fusion induced by <math>^{19}\text{F}</math> projectiles</b>          Amritraj Mahato, Dharmendra Singh, Nitin Sharma, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b>, M. Afzal Ansari, Asif Ali, Nabendu Kumar Deb, N. P. M. Sathik, S. Kumar, R. Kumar, S. Muralithar, and R. P. Singh          Phys. Rev. C <b>106</b> (2022) 014613</p>



13.	<p><b>Projectile Break-up Effect on Fusion in <math>^{16}\text{O} + ^{156}\text{Gd}</math> Reaction at Energy Range 4.3-6.3 MeV/A</b></p> <p>Rahbar Ali, D Singh, Harish Kumar, <u>Suhail A Tali</u>, Asif Khan, M Afzal Ansari, R P Singh &amp; S Muralithar Indian Jour. Pure and Appl. Phys. <b>59</b> (2021) 103.</p>
14.	<p><b>Probing of Incomplete Fusion dynamics in <math>^{14}\text{N} + ^{124}\text{Sn}</math> system and its correlation with various entrance channel effects</b></p> <p>Amritraj Mahato, D. Singh, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, <u>Suhail A. Tali</u>, M.Afzal Ansari, R. Kumar, S. Muralithar, R. P. Singh Eur. Phys. J. A <b>56</b> (2020) 131.</p>
15.	<p><b>Disentangling of incomplete fusion dynamics at low energies <math>\approx 4-6</math> MeV/A</b></p> <p>Pankaj K Giri, Amritraj Mahato, D Singh, Sneha B Linda, Harish Kumar, <u>Suhail A Tali</u>, M Afzal Ansari, R Kumar, S Muralithar &amp; R P Singh Indian Jour. Pure and Appl. Phys. <b>58</b> (2020) 371.</p>
16.	<p><b>Effect of projectile breakup in the system <math>^{19}\text{F} + ^{154}\text{Sm}</math></b></p> <p>Amritraj Mahato, Pankaj K Giri, D Singh, Nitin Sharma, Sneha B Linda, Harish Kumar, <u>Suhail A Tali</u>, Nabendu K Deb, M Afzal Ansari, R Kumar, S Muralithar &amp; R P Singh Indian Jour. Pure and Appl. Phys. <b>58</b> (2020) 386.</p>
17.	<p><b>Signature of incomplete fusion reaction in <math>^{20}\text{Ne} + ^{159}\text{Tb}</math> system: Entrance channel parameters effect</b></p> <p>Rahbar Ali, D. Singh, Harish Kumar, <u>Suhail A. Tali</u>, M. Afzal Ansari and M. H. Rashid Indian Jour. Pure and Appl. Phys. <b>57</b> (2019) 570.</p>
18.	<p><b>Systematic study of low-energy incomplete-fusion dynamics in the <math>^{16}\text{O} + ^{148}\text{Nd}</math> system: Role of target deformation</b></p> <p>Pankaj K. Giri, D. Singh, Amritraj Mahato, Sneha B. Linda, Harish Kumar, <u>Suhail A. Tali</u>, Siddharth Parashari, Asif Ali, M. Afzal Ansari, Rakesh Dubey, R. Kumar, S. Muralithar and R. P. Singh Phys. Rev. C <b>100</b> (2019) 024621.</p>
19.	<p><b>Examination of break-up fusion in the <math>^{16}\text{O} + ^{148}\text{Nd}</math> system through measurements of forward recoil range distributions and angular distributions</b></p> <p>Pankaj K. Giri, Amritraj Mahato, D. Singh, Sneha B. Linda, Harish Kumar, <u>Suhail A. Tali</u>, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh Phys. Rev. C <b>100</b> (2019) 054604.</p>
20.	<p><b>Probing of incomplete fusion dynamics and its correlation with various systematic</b></p> <p>D. Singh, Pankaj K. Giri, Amritraj Mahato, Sneha B. Linda, Harish Kumar, M. Afzal Ansari, Rahbar Ali, <u>Suhail A. Tali</u>, M. H. Rashid, R. Guin and S. K. Das Nucl. Phys. A <b>981</b> (2019) 75.</p>
21.	<p><b>Investigation of breakup fusion in <math>^{16}\text{O} + ^{124}\text{Sn}</math> system and its correlation with various entrance channel parameters</b></p> <p>D. Singh, Sneha B. Linda, Pankaj K. Giri, Amritraj Mahato, Harish Kumar, <u>Suhail A. Tali</u>, M. Afzal Ansari, R. kumar, S. Muralithar and R. P. Singh</p>



	Inter. Jour. Mod. Phys. E <b>28</b> (2019) 1950069.
<b>22.</b>	<b>Study of Incomplete fusion dynamics on various entrance channel parameters</b> Sneha B. Linda, Pankaj K. Giri, D. Singh, Amritraj Mahato, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh Indian Jour. Pure and Appl. Phys. <b>57</b> (2019) 548.
<b>23.</b>	<b>Dependency of incomplete fusion on target deformation</b> Pankaj K. Giri, D. Singh, Sneha B. Linda, Amritraj Mahato, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, R. Kumar, R. P. Singh and S. Muralithar Indian Jour. Pure and Appl. Phys. <b>57</b> (2019) 552.
<b>24.</b>	<b>Measurement of excitation functions in <math>^{14}\text{N}</math>-ion induced reactions</b> Amritraj Mahato, D. Singh, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh Indian Jour. Pure and Appl. Phys. <b>57</b> (2019) 557.
<b>25.</b>	<b>Incomplete momentum transfer in <math>^{16}\text{O} + ^{148}\text{Nd}</math> system [at energy <math>\approx 5.8</math> MeV/nucleon]</b> Pankaj K. Giri, Amritraj Mahato, D. Singh, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b> , R. Ali, N. P. M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh Indian Jour. Pure and Appl. Phys. <b>57</b> (2019) 619.
<b>26.</b>	<b>Measurement of excitation functions of evaporation residues in the <math>^{16}\text{O} + ^{124}\text{Sn}</math> reaction and investigation of the dependence of incomplete fusion dynamics on entrance channel parameters</b> D. Singh, Sneha B. Linda, Pankaj K. Giri, Amritraj Mahato, R. Tripathi, Harish Kumar, <b>Suhail A. Tali</b> , Siddharth Parashari, Rakesh Dubey, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh Phys. Rev. C <b>97</b> (2018) 064610.
<b>(B) International/National Conferences/Symposia (As first Author)</b>	
<b>1.</b>	<b>Study of break-up fusion process in light heavy ion projectile induced reactions</b> <b>Suhail A. Tali</b> , Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, R. Kumar, Amritraj Mahato, Nabendu Kumar Deb DAE-BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. <b>66</b> (2022) 503
<b>2.</b>	<b>Forward recoil range distribution measurements: A model independent proof for complete and incomplete fusion reaction dynamics</b> <b>Suhail A. Tali</b> , Harish Kumar, M. Afzal Ansari, Rahbar Ali, D. Singh, Pankaj K. Giri, Sneha B. Linda, R. Kumar, Amritraj Mahato, Nabendu Kumar Deb, S. Muralithar and R. P. Singh Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions held at AMU Aligarh 2-4 March, 2020.

3.	<p><b>Nuclear reaction studies in heavy ion induced reactions</b></p> <p><b>Suhail A. Tali</b> DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. <b>64</b> (2019) 1037.</p>
4.	<p><b>Comprehension of break-up fusion process from linear momentum transfer measurements</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, R. Kumar, Asif Ali, Amritraj Mahato, Nabendu Kumar Deb, S. Muralithar and R. P. Singh DAE–BRNS Int. Symp. Nucl. Phys. BARC, Mumbai (India), Vol. <b>63</b> (2018) 486.</p>
5.	<p><b>Fabrication of thin self supporting <math>^{156}\text{Gd}</math>, <math>^{165}\text{Ho}</math> and <math>^{166}\text{Er}</math> targets</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, Abhilash S. R. and D. Kabiraj DAE–BRNS Int. Symp. Nucl. Phys. BARC, Mumbai (India), Vol. <b>63</b> (2018) 1218.</p>
6.	<p><b>Projectile structure effect in low energy incomplete fusion reaction dynamics</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, Asif Ali, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, Siddharth Parashari, R. Kumar, S. Muralithar and R. P. Singh DAE–BRNS Symp. Nucl. Phys., TIET, Patiala (India), Vol. <b>62</b> (2017) 432.</p>
7.	<p><b>Study of complete and incomplete fusion reaction dynamics using <math>^{13}\text{C}</math> non alpha cluster structure projectile</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, Asif Ali, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, Siddharth Parashari, Rakesh Kumar, R. P. Singh and S. Muralithar Int. Conf. in Nuclear Physics with Energetic Heavy Ion Beams held during 15-18 March, 2017, at PU, Chandigarh (India).</p>
8.	<p><b>Comprehension of incomplete fusion dynamics from excitation function measurements</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, Asif Ali, Siddharth Parashari, Pankaj K. Giri, Sneha B. Linda, D. Singh, Rahbar Ali, Rakesh Kumar, R. P. Singh and S. Muralithar DAE–BRNS Symp. Nucl. Phys. SINP, Kolkata (India), Vol. <b>61</b> (2016) 366.</p>
9.	<p><b>An approach to understand incomplete fusion dynamics from recoil range distribution measurements</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, Asif Ali, Siddharth Parashari, D. Singh, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar National Conference on Recent Trends in Nuclear Physics, held during Feb 15-16, 2016 at A.M.U., Aligarh (India).</p>
10.	<p><b>Study of low-energy incomplete fusion reaction dynamics</b></p> <p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, Asif Ali, Siddharth Parashari, Pankaj K. Giri, Sneha B. Linda, D. Singh, Rahbar Ali, Rakesh Kumar, R. P. Singh and S.</p>





	<p>Muralithar National Conference on Nuclear and Accelerator Physics (NCNAP-2016), held during Oct 4-6, 2016 at CUJ, Ranchi (India).</p>
<b>11. Probing of incomplete fusion from the measurement of recoil range distributions</b>	<p><b>Suhail A. Tali</b>, Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, Asif Ali, Siddharth Parashari, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar DAE–BRNS Symp. Nucl. Phys. SSSIHL, Prasanthi Nilayam (India), Vol. <b>60</b> (2015) 520.</p>
<b>International/National Conferences/Symposia (As Co-Author)</b>	
<b>12. A study of forward recoil range distributions of incomplete fusion reaction in <math>^{16}\text{O} + ^{156}\text{Gd}</math> system at energies <math>E = 72, 82 \text{ \&amp; } 93 \text{ MeV}</math></b>	<p>Rahbar Ali, <b>Suhail Ahmed Tali</b>, D. Singh, Harish Kumar, Rakesh Kumar, S. Muralithar, M. Afzal Ansari DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. <b>66</b> (2022) 525</p>
<b>13. Study of complete and incomplete fusion reactions at above the barrier energy using <math>^{19}\text{F} + ^{93}\text{Nb}</math> system</b>	<p>Sabir Ali, Muntazir Gull, Sunil Dutt, Md. Moin Shaikh, <b>Suhail A. Tali</b>, S. Kumar, Chandra Kumar, I. Ahmed, I. A. Rizvi, Rakesh Kumar, Avinash Agarwal DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. <b>66</b> (2022) 533</p>
<b>14. Breakup fusion of <math>^{18}\text{O}</math> Projectile with <math>^{154}\text{Sm}</math> at energy <math>\approx 3\text{-}7 \text{ MeV/nucleon}</math></b>	<p>Rajesh K. Sahoo, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Jagatjyoti Mohapatra, Lupteindu Chhura, Rahul Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b>, Asif Ali, Rahbar Ali, Sushil Kumar, Nabendu Kumar Deb, N. P. M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralithar, R. P. Singh DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. <b>66</b> (2022) 505</p>
<b>15. Complete and incomplete fusion studies of evaporation residues populated in <math>^{12}\text{C} + ^{154}\text{Sm}</math> system</b>	<p>Jagatjyoti Mohapatra, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Rajesh K. Sahoo, Lupteindu Chhura, Rahul Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b>, Asif Ali, Rahbar Ali, Sushil Kumar, Nabendu Kumar Deb, N. P. M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralithar, R. P. Singh DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. <b>66</b> (2022) 531</p>
<b>16. Production of <math>^{157}\text{Dy}</math> from <math>^{14}\text{N}</math> induced reaction</b>	<p>Lupteindu Chhura, Dharmendra Singh, Pankaj K. Giri, Amritraj Mahato, Nitin Sharma, Sneha B. Linda, Jagatjyoti Mohapatra, Rajesh K. Sahoo, Rahul Mahato, Harish Kumar, <b>Suhail A. Tali</b>, Siddharth Parashari, Rakesh Dubey, M. Afzal Ansari, Asif Ali, R. Kumar, S. Muralithar, R. P. Singh DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. <b>66</b> (2022) 545</p>
<b>17. Measurement of angular distributions of evaporation residues populated through complete and incomplete fusion in <math>^{16}\text{O} + ^{146}\text{Nd}</math> system</b>	

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<b>18. Angular distribution of <math>^{12,13}\text{C} + ^{175}\text{Lu}</math> system relative to modified detector efficiencies calculated using MCNP code</b>	Siddarth Parashari, Rajnikant Makwana, B. Soni, S. Mukherjee, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, K. Katovsky Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions held at AMU Aligarh 2-4 March, 2020.
<b>19. Incomplete fusion dynamics by measurements of excitation functions in <math>^{16}\text{O} + ^{146}\text{Nd}</math> system</b>	Amritraj Mahato, Nitin Sharma, Pankaj K. Giri, D. Singh, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, Rahbar Ali, N. P. M. Sathik, S. Kumar, I. Ahmad, Varun Vijay Savadi, R. K. Singh, R. Kumar, K. S. Golda, S. Muralithar and R. P. Singh Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions held at AMU Aligarh 2-4 March, 2020.
<b>20. A study of pre-equilibrium particle emission in <math>^{19}\text{F} + ^{154}\text{Sm}</math> system</b>	D. Singh, Amritraj Mahato, Pankaj K. Giri, Nitin Sharma, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, Rahbar Ali, R. Tripathi, R. Kumar, S. Muralithar and R. P. Singh Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions held at AMU Aligarh 2-4 March, 2020.
<b>21. Effects of projectile break-up on fusion</b>	Rahbar Ali, D. Singh, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, Rakesh Kumar, K. S. Golda, S. Muralithar, R.P. Singh and R. K. Bhowmik DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. <b>64</b> (2019) 445.
<b>22. Systematic study on low energy incomplete fusion dynamics and its correlation with various entrance channel effects</b>	Amritraj Mahato, Pankaj K. Giri, D. Singh, Nitin Sharma, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. <b>64</b> (2019) 443.
<b>23. Effects of projectile break-up on fusion</b>	Rahbar Ali, D. Singh, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, Rakesh Kumar, K. S. Golda, S. Muralithar, R.P. Singh and R. K. Bhowmik DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. <b>64</b> (2019) 445.
<b>24. Systematic study on low energy incomplete fusion dynamics and its correlation with various entrance channel effects</b>	Amritraj Mahato, Pankaj K. Giri, D. Singh, Nitin Sharma, Sneha B. Linda, Harish Kumar, <b>Suhail A. Tali</b> , M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. <b>64</b> (2019) 443.

25.	<p><b>Investigation of break-up fusion process below 8 MeV/nucleon energies</b>  Harish Kumar, <u>Suhail A. Tali</u>, M. Afzal Ansari, Rahbar Ali, D. Singh, Naseef M. P. N., R. Kumar, K. S. Golda, R. P. Singh and S. Muralithar  DAE–BRNS Int. Symp. Nucl. Phys. BARC, Mumbai (India), Vol. <b>63</b> (2018) 506.</p>
26.	<p><b>Low energy incomplete fusion study in the <math>^{16}\text{O} + ^{142}\text{Nd}</math> system</b>  Pankaj K. Giri, D. Singh, Sneha B. Linda, Amritraj Mahato, Harish Kumar, <u>Suhail A. Tali</u>, Siddharth Parashari, Asif Ali, M. Afzal Ansari, Rakesh Dubey, R. Kumar, S. Muralithar and R. P. Singh  DAE–BRNS Int. Symp. Nucl. Phys. BARC, Mumbai (India), Vol. <b>63</b> (2018) 630.</p>
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28.	<p><b>Study of incomplete fusion sensitivity to projectile structure from recoil range distribution measurement</b>  Harish Kumar, <u>Suhail A. Tali</u>, M. Afzal Ansari, D. Singh, Rahbar Ali, Siddharth Parashari, Asif Ali, Pankaj. K. Giri, Sneha B. Linda, R. Kumar, R. P. Singh and S. Muralithar  DAE–BRNS Symp. Nucl. Phys. TIET, Patiala (India), Vol. <b>62</b> (2017) 366.</p>
29.	<p><b>Investigation of incomplete fusion dynamics by measurement of recoil range distribution in <math>^{16}\text{O} + ^{124}\text{Sn}</math> system</b>  Sneha Bharti Linda, Pankaj K. Giri, D. Singh, Amritraj Mahato, Harish Kumar, <u>Suhail A. Tali</u>, Siddharth Parashari, Asif Ali, Rakesh Dubey, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh  DAE–BRNS Symp. Nucl. Phys. TIET, Patiala (India), Vol. <b>62</b> (2017) 384.</p>
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32.	<p><b>Alpha Q-value effect on incomplete fusion dynamics below 8 MeV/nucleon energies</b>  Harish Kumar, <u>Suhail A. Tali</u>, M. Afzal Ansari, D. Singh, Rahbar Ali, Siddharth</p>



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<b>35. Investigation of incomplete fusion by measurement of excitation functions in the <math>^{14}\text{N} + ^{27}\text{Al}</math> system</b>	Pankaj K. Giri, Sneha Bharti Linda, D. Singh, Harish Kumar, <b>Suhail A. Tali</b> , Siddharth Parashari, Asif Ali, Rakesh Dubey, Vivek Kumar, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh DAE–BRNS Symp. Nucl. Phys. SINP, Kolkata (India), Vol. <b>61</b> (2016) 522.
<b>36. Study of complete and incomplete fusion dynamics in the interaction of <math>^{14}\text{N}</math> with <math>^{148}\text{Nd}</math></b>	Pankaj K. Giri, Sneha Bharti Linda, D. Singh, Harish Kumar, <b>Suhail A. Tali</b> , Siddharth Parashari, Asif Ali, Rakesh Dubey, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh DAE–BRNS Symp. Nucl. Phys. SINP, Kolkata (India), Vol. <b>61</b> (2016) 524.
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<b>38. Investigation of incomplete fusion dynamics below <math>\approx 8</math> MeV/nucleon energies</b>	Asif Ali, Harish Kumar, M. Afzal Ansari, <b>Suhail A. Tali</b> , Siddharth Parashari, D. Singh, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar National Conference on Recent Trends in Nuclear Physics, held during February 15-16,

	2016 at A.M.U., Aligarh (India).
<b>39. Angular distribution: A probe for incomplete fusion investigation</b>	Siddharth Parashari, Harish Kumar, M. Afzal Ansari, <b>Suhail A. Tali</b> , Asif Ali, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, Rakesh Kumar, R. P. Singh and S. Muralithar  National Conference on Recent Trends in Nuclear Physics, held during February 15-16, 2016 at A.M.U., Aligarh (India).
<b>40. Linear momentum transfer effect on incomplete fusion process at energy <math>\approx 88</math> MeV</b>	Harish Kumar, Siddharth Parashari, M. Afzal Ansari, D. Singh, Rahbar Ali, <b>Suhail A. Tali</b> , Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, R. P. Singh, S. Muralithar and Rakesh Kumar  DAE–BRNS Symp. Nucl. Phys. SSSIHL, Prasanthi Nilayam (India), Vol. <b>60</b> (2015) 474.
<b>41. Competition between complete and incomplete fusion reaction mechanism below 8 MeV/nucleon energies</b>	Asif Ali, Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, <b>Suhail A. Tali</b> , Siddharth Parashari, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar  DAE–BRNS Symp. Nucl. Phys., SSSIHL, Prasanthi Nilayam (India), Vol. <b>60</b> (2015) 554.
<b>42. Investigation of incomplete fusion dynamics from the measurement of angular distributions at <math>E \approx 88</math> MeV</b>	Siddharth Parashari, Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, <b>Suhail A Tali</b> , Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, R. P. Singh, S. Muralithar and Rakesh Kumar  DAE–BRNS Symp. Nucl. Phys. SSSIHL, Prasanthi Nilayam (India), Vol. <b>60</b> (2015) 476.
<b>43. Mass-asymmetry effect on incomplete fusion process at energies <math>\approx 4-7</math> MeV/nucleon</b>	Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, <b>Suhail A. Tali</b> , Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, R. P. Singh, S. Muralithar, P. Sugathan, Rakesh Kumar and N. Madhavan  DAE–BRNS Symp. Nucl. Phys., BHU, Varanasi (India), Vol. <b>59</b> (2014) 552.

### Research Projects

**Title:** Systematic Study of Low Energy Break-up Fusion Reactions.

**Funding Agency:** Inter university Accelerator Centre, New Delhi

**Funding Amount:** 1 Junior Research Fellow + Rs. 75,000/ Contingency +15 shifts of beam time + Target Material

**Status:** Ongoing

**Role in this Project:** As Co-PI

**Duration of Project:** Three Years

**Date of approval:** 17 July 2022

### Projects guided at Masters Level

S. No	Title of Project	Name of Student	University & Year
01	Study of Break-up Fusion Reactions with Heavier Mass Targets	Mr. Syed Sajad Ahmad & Mr. Irfan Gani Teli	Islamic University of Science & Technology- 2021
02	Understanding Low Energy Incomplete Fusion Reactions Using Forward Recoil Range Distribution Measurements	Mr. Faisal Nawaz Teli Mr. Shahid Ahad Ms. Sania Aftab	Central University of Kashmir, 2023-2024.

### Collaborations

1. Aligarh Muslim University, Aligarh.
2. Inter-University Accelerator Centre, New Delhi.
3. Central University of Kashmir.
4. Islamic University of Science & Technology, J & K.
5. Central University of Jharkhand, Ranchi.
6. UGC-DAE CSR, Kolkata.
7. MANUU, Polytechnic, Darbhanga.
8. Amity University, Noida.
9. Kamrup College, Assam.

### Research Profile:

[https://www.researchgate.net/profile/Suhail\\_Tali2](https://www.researchgate.net/profile/Suhail_Tali2)

<https://scholar.google.co.in/citations?hl=en&user=tgJgaxoAAAAJ>

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