

SUHAIL AHMAD TALI

amusuhailtali@gmail.com

+91 9622130369

https://www.researchgate.net/profile/Suhail_Tali2

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

[Dr. Suhail Ahmad Tali \(0000-0003-0564-5732\) - ORCID](https://orcid.org/0000-0003-0564-5732)

<https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=57193268036>



EDUCATION

Aligarh Muslim University

Aligarh, India

Ph.D. Physics (*Experimental Nuclear Physics*)

2014-2019

Title: *Nuclear Reaction Studies in Heavy Ion Induced Reactions*

Academic Advisor: *Prof. M. Afzal Ansari*

Aligarh Muslim University

Aligarh, India

M.Sc. Physics [First Class]

2011-2013

Jamia Millia Islamia University

New Delhi, India

B.Sc. Physics [First Class]

2008-2011

RESEARCH INTERESTS

1. Breakup Fusion Nuclear Reactions
2. Fusion-Fission Reactions
3. Pre-equilibrium Reactions
4. Super Heavy Element Formation
5. Ion Beam Therapy

TEACHING EXPERIENCE

1. 5th April 2025 to till date, Assistant Professor at Cluster University of Srinagar.
2. 8th April 2024 to 31st December 2024, Lecturer at University of Kashmir.
3. 1st February 2023 to 7th April 2024 Assistant Professor at Central University of Kashmir.
4. 22nd February 2022 to 31st December 2022, Assistant Professor at Central University of Kashmir.
5. 17th February 2021 to 21st February 2022, Lecturer at Islamic University of Science & Technology.
6. 7th September 2020 to 6th February 2021, Lecturer at Government Degree College Samba, Jammu.
7. March 2014 to May 2018, Teaching Assistant Laboratory Classes at Aligarh Muslim University.

Presently, I have more than **5** years of **teaching experience** at Undergraduate & Post-graduate level. During this period, I have delivered courses spanning a diverse range of physics disciplines, including Basic Nuclear & Particle Physics, Advanced Nuclear Physics, Accelerator and Detector Physics, Quantum Mechanics, Electricity & Magnetism, Mechanics, Statistical Physics, Research Methodology, Raman Spectroscopy, History of Physics and Experimental Techniques. Complementing my teaching expertise, I bring over **10** years of hands-on experience in operating and managing Physics laboratory instruments. To date, I have supervised **5 master's students** in experimental nuclear physics **projects** and conducted **7** experiments at the Inter-University Accelerator Centre (IUAC), New Delhi. Additionally, I contributed as a committee member in designing the **syllabus** for the Five-Year Integrated B.Sc.-M.Sc. Physics program at Kashmir University (Kupwara Campus) and M.Sc. Physics Program at Cluster University of Srinagar, in alignment with the **National Education Policy (NEP) 2020**.

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 30th -31th August, 2005.

COMPUTER SKILLS

- **Languages:** C++, Fortran
- **Data Analysis:** CANDLE
- **Operating Systems:** Linux, Windows
- **Other Software's:** ORIGIN, SRIM, PACE4

RESEARCH EXPERIENCE

As a researcher, I have made an important contribution in understanding low energy breakup fusion reactions, especially its dependence on entrance channel parameters. Very exciting results have been observed for systems leading to same mass-asymmetry, same compound nucleus formation, same product of projectile and target charge ($Z_P \cdot Z_T$) and alpha versus non-alpha cluster projectile induced reactions. Presently I am trying to comprehend the dependence of breakup fusion reactions on parameters such as neutron skin thickness, deformation of target nucleus (β_2), neutron excess ($A-Z$), interaction radius and their combinations. I am also trying to develop a theoretical model

for breakup fusion reactions below 8 MeV/nucleon. Moreover, I have also started working on applications of nuclear physics in medical science.

Invited Talks/Oral Presentations in Conferences

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

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 “27th International Conference of International Academy of Physical Sciences on Frontiers in Physics” held from 26th to 28th October 2021, organized jointly by **Department of Physics, IUST and Kashmir University.**
3. Participated in “Center for Nuclear Study Summer School 2020” held from 17th to 21st 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 64th 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 63rd 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 62nd 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 61st 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 60th DAE-BRNS Symposium on Nuclear Physics during December 07–11, 2015 **SSSIHL, Prasanthi Nilayam AP, (India)**.
14. Participated in the “Poster Presentation at the 59th 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)**.

List of Publications:

(A) International (Peer reviewed) Journals [As First and Second Author]

1. **Comprehension of break-up fusion reactions using forward recoil range distribution measurements**
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 and R. N. Ali
Nuclear Physics A 1042 (2024) 122809.
<https://doi.org/10.1016/j.nuclphysa.2023.122809> (Impact Factor: 2.5)
2. **Systematic study of break-up fusion process in $^{12}\text{C} + ^{165}\text{Ho}$ system and interplay of entrance channel parameters**
Suhail A. Tali, 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
Phys. Rev. C 100 (2019) 024622.
<https://doi.org/10.1103/PhysRevC.100.024622> (Impact Factor: 3.8)
3. **Role of alpha cluster over non alpha cluster projectile in low energy incomplete fusion reaction dynamics**
Suhail A. Tali, 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

Indian Jour. Pure and Appl. Phys. **57** (2019) 544.

<http://nopr.niscpr.res.in/handle/123456789/49782>

(Impact Factor: 0.85)

4. Study of incomplete fusion reaction dynamics in $^{13}\text{C} + ^{165}\text{Ho}$ system and its dependence on various entrance channel parameters

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. Muralithar
Nucl. Phys. A **970** (2018) 208.

<https://doi.org/10.1016/j.nuclphysa.2017.11.012>

(Impact Factor: 2.5)

5. Systematic study of incomplete-fusion dynamics below 8 MeV/nucleon energy

Harish Kumar, Suhail A. Tali, 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 **99** (2019) 034610.

<https://doi.org/10.1103/PhysRevC.99.034610>

(Impact Factor: 3.8)

6. Study of break-up fusion process from forward recoil range distribution measurement

Harish Kumar, Suhail A. Tali, 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. **57** (2019) 540.

<http://nopr.niscpr.res.in/handle/123456789/49783>

(Impact Factor: 0.85)

7. Sensitivity of low-energy incomplete fusion to various entrance-channel parameters

Harish Kumar, Suhail A. Tali, 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 **54** (2018) 47.

<https://link.springer.com/article/10.1140/epja/i2018-12483-8>

(Impact Factor: 3.04)

8. Investigation of incomplete fusion dynamics at energy 4-8 MeV/nucleon

Harish Kumar, Suhail A. Tali, 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 **960** (2017) 53.

<http://dx.doi.org/10.1016/j.nuclphysa.2017.01.009>

(Impact Factor: 2.5)

International (Peer reviewed) Journals [In Addition to First and Second Author]

9. Compound and non-compound nuclear fusion using forward recoil range distributions of evaporation residues produced in $^{18}\text{O} + ^{154}\text{Sm}$ system

Rajesh K Sahoo, Dharmendra Singh, Amrit Raj Mahato, Pankaj K Giri, Nitin Sharma, Lupteindu Chhura, Rahul Mahato, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Rahbar Ali, M. Afzal Ansari, R. Kumar, S. Muralithar, R.P. Singh

Nucl. Phys. A **1064** (2025) 123245.

<https://doi.org/10.1016/j.nuclphysa.2025.123245>

(Impact Factor: 2.5)

10. A study on the effect of neutron excess on compound and non-compound nuclear reaction cross sections at above barrier energies.

Rajesh K. Sahoo, Dharmendra Singh, Amritraj Mahato, Pankaj K. Giri, Nitin Sharma, Lupteindu Chhura, Rahul Mahato, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, Rahbar Ali, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh.

Eur. Phys. J. A **61** (2025) 121.

<https://doi.org/10.1140/epja/s10050-025-01584-8>

(Impact Factor: 3.04)

11. A comparative study of ^{14}N and ^{16}O projectiles on ^{148}Nd target at low energy through experimental analysis.

Lupteindu Chhura, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Rajesh K Sahoo, Rahul Mahato, Pankaj K Giri, Sneha B Linda, Harish Kumar, **Suhail A Tali**, M Afzal Ansari, Rahbar Ali, R Kumar, S Muralithar and R P Singh

Phys. Scr. 100 (2025) 015311

<https://doi.org/10.1088/1402-4896/ad9eec>

(Impact Factor: 2.6)

12. Noncompound fusion reactions at low bombarding energy

Rajesh K. Sahoo, Dharmendra Singh, Amritraj Mahato, Pankaj K. Giri, Nitin Sharma, Lupteindu Chhura, Rahul Mahato, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, M. Afzal Ansari, Rahbar Ali, R. Kumar, S. Muralithar, R. P. Singh

Phys. Rev. C **110** (2024) 044607

<https://doi.org/10.1103/PhysRevC.110.044607>

(Impact Factor: 3.8)

13. Evidence of compound nucleus theory in the population of incompletely fused composite system $^{160}\text{Dy}^*$

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

Eur. Phys. J. A **60** (2024) 72.

<https://doi.org/10.1140/epja/s10050-024-01293-8>

(Impact Factor: 3.04)

14. Medically relevant radioisotope production through low energy heavy ion reactions

Rahul Mahato, Dharmendra Singh, Nitin Sharma, Rajesh K. Sahoo, Lupteindu Chhura, Amritraj Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Rahbar Ali, **Suhail A. Tali**, Sushil Kumar, M. Afzal Ansari, R. Kumar, S. Muralithar, R. P. Singh

Jour. of Radioanalytical and Nucl. Chem. **333** (2024) 7.

<https://doi.org/10.1007/s10967-024-09623-2>

(Impact Factor: 1.5)

15. Systematic study of incomplete fusion dynamics with various entrance channel parameters

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

Indian Jour. Pure and Appl. Phys. **61** (2023) 697.

[DOI: 10.56042/ijpap.v61i8.1327](https://doi.org/10.56042/ijpap.v61i8.1327)

(Impact Factor: 0.85)

16. Role of incomplete fusion in production of ^{155}Tb

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 **332** (2023)1-6.

<https://doi.org/10.1007/s10967-023-09111-z>

(Impact Factor: 1.5)

17. Disentangling fractional momentum transfer in $^{19}\text{F} + ^{154}\text{Sm}$ system

Amritraj Mahato, Dharmendra Singh, Nitin Sharma, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, 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 **107** (2023) 014601

<https://doi.org/10.1103/PhysRevC.107.014601>

(Impact Factor: 3.8)

18. Effects of entrance channels on breakup fusion induced by ^{19}F projectiles

Amritraj Mahato, Dharmendra Singh, Nitin Sharma, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, 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 **106** (2022) 014613

<https://doi.org/10.1103/PhysRevC.106.014613>

(Impact Factor: 3.8)

19. Projectile Break-up Effect on Fusion in $^{16}\text{O} + ^{156}\text{Gd}$ Reaction at Energy Range 4.3-6.3 MeV/A

Rahbar Ali, D Singh, Harish Kumar, **Suhail A Tali**, Asif Khan, M Afzal Ansari, R P Singh & S Muralithar

Indian Jour. Pure and Appl. Phys. **59** (2021) 103.

<http://op.niscair.res.in/index.php/IJPAP/article/view/42188>

(Impact Factor: 0.8)

20. Probing of Incomplete Fusion dynamics in $^{14}\text{N} + ^{124}\text{Sn}$ system and its correlation with various entrance channel effects

Amritraj Mahato, D. Singh, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, M. Afzal Ansari, R. Kumar, S. Muralithar, R. P. Singh

Eur. Phys. J. A **56** (2020) 131.

<https://doi.org/10.1140/epja/s10050-020-00126-8>

(Impact Factor: 3.04)

21. Disentangling of incomplete fusion dynamics at low energies $\approx 4\text{-}6$ MeV/A

Pankaj K Giri, Amritraj Mahato, D Singh, Sneha B Linda, Harish Kumar, **Suhail A Tali**, M Afzal Ansari, R Kumar, S Muralithar & R P Singh

Indian Jour. Pure and Appl. Phys. **58** (2020) 371.

DOI: [10.56042/ijpap.v58i5.67682](https://doi.org/10.56042/ijpap.v58i5.67682)

(Impact Factor: 0.85)

22. Effect of projectile breakup in the system $^{19}\text{F} + ^{154}\text{Sm}$

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 & R P Singh

Indian Jour. Pure and Appl. Phys. **58** (2020) 386.

<http://nopr.niscpr.res.in/handle/123456789/54747>

(Impact Factor: 0.85)

23. Signature of incomplete fusion reaction in $^{20}\text{Ne} + ^{159}\text{Tb}$ system: Entrance channel parameters effect

Rahbar Ali, D. Singh, Harish Kumar, Suhail A. Tali, M. Afzal Ansari and M. H. Rashid
Indian Jour. Pure and Appl. Phys. **57** (2019) 570.

<http://nopr.niscpr.res.in/handle/123456789/49776>

(Impact Factor: 0.85)

24. Systematic study of low-energy incomplete-fusion dynamics in the $^{16}\text{O} + ^{148}\text{Nd}$ system: Role of target deformation

Pankaj K. Giri, D. Singh, Amritraj Mahato, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Siddharth Parashari, Asif Ali, M. Afzal Ansari, Rakesh Dubey, R. Kumar, S. Muralithar and R. P. Singh

Phys. Rev. C **100** (2019) 024621.

<https://doi.org/10.1103/PhysRevC.100.024621>

(Impact Factor: 3.8)

25. Examination of break-up fusion in the $^{16}\text{O} + ^{148}\text{Nd}$ system through measurements of forward recoil range distributions and angular distributions

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

Phys. Rev. C **100** (2019) 054604.

<https://doi.org/10.1103/PhysRevC.100.054604>

(Impact Factor: 3.8)

26. Probing of incomplete fusion dynamics and its correlation with various systematic

D. Singh, Pankaj K. Giri, Amritraj Mahato, Sneha B. Linda, Harish Kumar, M. Afzal Ansari, Rahbar Ali, Suhail A. Tali, M. H. Rashid, R. Guin and S. K. Das

Nucl. Phys. A **981** (2019) 75.

<https://doi.org/10.1016/j.nuclphysa.2018.10.080>

(Impact Factor: 1.4)

27. Investigation of breakup fusion in $^{16}\text{O} + ^{124}\text{Sn}$ system and its correlation with various entrance channel parameters

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

Inter. Jour. Mod. Phys. E **28** (2019) 1950069.

<https://doi.org/10.1142/S0218301319500691>

(Impact Factor: 1.1)

28. Study of Incomplete fusion dynamics on various entrance channel parameters

Sneha B. Linda, Pankaj K. Giri, D. Singh, Amritraj Mahato, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh

Indian Jour. Pure and Appl. Phys. **57** (2019) 548.

<http://nopr.niscpr.res.in/handle/123456789/49781>

(Impact Factor: 0.85)

29. Dependency of incomplete fusion on target deformation

Pankaj K. Giri, D. Singh, Sneha B. Linda, Amritraj Mahato, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, R. Kumar, R. P. Singh and S. Muralithar

Indian Jour. Pure and Appl. Phys. **57** (2019) 552.

<http://nopr.niscpr.res.in/handle/123456789/49780>

(Impact Factor: 0.85)

30. Measurement of excitation functions in ^{14}N -ion induced reactions

Amritraj Mahato, D. Singh, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh

Indian Jour. Pure and Appl. Phys. **57** (2019) 557.

<http://nopr.niscpr.res.in/handle/123456789/49779>

(Impact Factor: 0.85)

31. Incomplete momentum transfer in $^{16}\text{O} + ^{148}\text{Nd}$ system [at energy ≈ 5.8 MeV/nucleon]

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 and R. P. Singh

Indian Jour. Pure and Appl. Phys. **57** (2019) 619.

<http://nopr.niscpr.res.in/handle/123456789/50539>

(Impact Factor: 0.85)

32. Measurement of excitation functions of evaporation residues in the $^{16}\text{O} + ^{124}\text{Sn}$ reaction and investigation of the dependence of incomplete fusion dynamics on entrance channel parameters

D. Singh, Sneha B. Linda, Pankaj K. Giri, Amritraj Mahato, R. Tripathi, Harish Kumar, **Suhail A. Tali**, Siddharth Parashari, Rakesh Dubey, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh

Phys. Rev. C **97** (2018) 064610.

<https://doi.org/10.1103/PhysRevC.97.064610>

(Impact Factor: 3.8)

International /National Conferences/Symposia (As First Author)

1. Study of break-up fusion process in light heavy ion projectile induced reactions

Suhail A. Tali, 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. **66** (2022) 503.

2. Forward recoil range distribution measurements: A model independent proof for complete and incomplete fusion reaction dynamics

Suhail A. Tali, 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. Nuclear reaction studies in heavy ion induced reactions

Suhail A. Tali

DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. **64** (2019) 1037.

4. Comprehension of break-up fusion process from linear momentum transfer measurements

Suhail A. Tali, 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. **63** (2018) 486.

5. Fabrication of thin self-supporting ^{156}Gd , ^{165}Ho and ^{166}Er targets

Suhail A. Tali, Harish Kumar, Abhilash S. R. and D. Kabiraj

DAE–BRNS Int. Symp. Nucl. Phys. BARC, Mumbai (India), Vol. **63** (2018) 1218.

6. Projectile structure effect in low energy incomplete fusion reaction dynamics

Suhail A. Tali, 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. **62** (2017) 432.

7. Study of complete and incomplete fusion reaction dynamics using ^{13}C non alpha cluster structure projectile

Suhail A. Tali, 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).

8. Comprehension of incomplete fusion dynamics from excitation function measurements

Suhail A. Tali, 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. **61** (2016) 366.

9. An approach to understand incomplete fusion dynamics from recoil range distribution measurements

Suhail A. Tali, 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).

10. Study of low-energy incomplete fusion reaction dynamics

Suhail A. Tali, 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

National Conference on Nuclear and Accelerator Physics (NCNAP-2016), held during Oct 4-6, 2016 at CUJ, Ranchi (India).

11. Probing of incomplete fusion from the measurement of recoil range distributions

Suhail A. Tali, 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. **60** (2015) 520.

International /National Conferences/Symposia (As Co-Author)
--

12. Probing of brerak-up fusion of ^{18}O projectile with ^{154}Sm target through forward recoil range distributions

Rajesh K. Sahoo, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Lupteindu Chhura, Rahul Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Rahbar Ali, M. Afzal Ansari, R. Kumar, S. Muralithar, and R.P. Singh
DAE–BRNS Symp. Nucl. Phys. IIT, Roorkee, Uttarakhand (India), Vol. **68** (2024) 363.

13. Investigation of Breakup fusion of ^{16}O projectile with ^{154}Sm target through universal fusion function approach

Rahul Mahato, Dharmendra Singh, Amritraj Mahato, Rajesh K. Sahoo, Nitin Sharma, 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, R. P. Singh
DAE–BRNS Symp. Nucl. Phys. IIT, Roorkee, Uttarakhand (India), Vol. **68** (2024) 469.

14. Production of medically relevant radionuclides through heavy-ion interactions

Rahbar Ali, Mohd Usman, Dharmendra Singh, Nitin Sharma, Harish Kumar, Suhail A. Tali, Z. Hasan, Mohd Asif Khan, Lupteindu Chhura, Rajesh K. Sahoo, Rahul Mahato, S. Muralithar, R. P. Singh and M. Afzal Ansari.

15. Study of break-up fusion reaction in $^{16}\text{O} + ^{156}\text{Gd}$ system

Rahbar Ali, Dharmendra Singh, Nitin Sharma, Harish Kumar, Suhail A. Tali, Rajesh K. Sahoo, Mohd Usman, Mohd Asif Khan, M. Afzal Ansari, R. Kumar, S. Muralithar
DAE–BRNS Symp. Nucl. Phys. IIT, Indore, Madhya Pradesh (India), Vol. **67** (2023) 461.

16. Role of Entrance Channel Parameters on α -Break up in Heavy Ion Induced Reactions

Rajesh K. Sahoo, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Lupteindu Chhura, Rahul Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, Rahbar Ali, Sushil Kumar, Nabendu Kumar Deb, M. Afzal Ansari, R. Kumar, S. Muralithar, and R.P. Singh
DAE–BRNS Symp. Nucl. Phys. IIT, Indore, Madhya Pradesh (India), Vol. **67** (2023) 463.

17. Identification of evaporation residues populated through complete and incomplete fusion in $^{16}\text{O} + ^{154}\text{Sm}$ system

Rahul Mahato, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Lupteindu Chhura, Rajesh K. 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
DAE–BRNS Symp. Nucl. Phys. IIT, Indore, Madhya Pradesh (India), Vol. **67** (2023) 589.

18. A study of forward recoil range distributions of incomplete fusion reaction in $^{16}\text{O} + ^{156}\text{Gd}$ system at energies $E = 72, 82 \text{ \& } 93 \text{ MeV}$

Rahbar Ali, Suhail Ahmed Tali, D. Singh, Harish Kumar, Rakesh Kumar, S. Muralithar, M. Afzal Ansari

DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. **66** (2022) 525.

19. Study of complete and incomplete fusion reactions at above the barrier energy using $^{19}\text{F} + ^{93}\text{Nb}$ system

Sabir Ali, Muntazir Gull, Sunil Dutt, Md. Moin Shaikh, Suhail A. Tali, S. Kumar, Chandra Kumar, I. Ahmed, I. A. Rizvi, Rakesh Kumar, Avinash Agarwal

DAE–BRNS Symp. Nucl. Phys. Cotton University, Guwahati, Assam (India), Vol. **66** (2022) 533.

20. Breakup fusion of ^{18}O Projectile with ^{154}Sm at energy $\approx 3\text{-}7 \text{ MeV/nucleon}$

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, 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. **66** (2022) 505.

21. Complete and incomplete fusion studies of evaporation residues populated in $^{12}\text{C} + ^{154}\text{Sm}$ system

Jagatjyoti Mohapatra, Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Rajesh K. Sahoo, Lupteindu Chhura, Rahul Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, 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. **66** (2022) 531.

22. Production of ^{157}Dy from ^{14}N induced reaction

Lupteindu Chhura, Dharmendra Singh, Pankaj K. Giri, Amritraj Mahato, Nitin Sharma, Sneha B. Linda, Jagatjyoti Mohapatra, Rajesh K. Sahoo, Rahul Mahato, Harish Kumar, Suhail A. Tali, 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. **66** (2022) 545.

23. Measurement of angular distributions of evaporation residues populated through complete and incomplete fusion in $^{16}\text{O} + ^{146}\text{Nd}$ system

Nitin Sharma, Dharmendra Singh, Amritraj Mahato, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Suhail A. Tali, M. Afzal Ansari, I. Ahmed, Sushil Kumar

DAE–BRNS Symp. Nucl. Physics Vol. **65** (2021) 383.

24. Angular distribution of $^{12,13}\text{C} + ^{175}\text{Lu}$ system relative to modified detector efficiencies calculated using MCNP code

Siddarth Parashari, Rajnikant Makwana, B. Soni, S. Mukherjee, Harish Kumar, **Suhail A. Tali**, M. Afzal Ansari, K. Katovsky
Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions held at AMU Aligarh 2-4 March, 2020.

25. Incomplete fusion dynamics by measurements of excitation functions in $^{16}\text{O} + ^{146}\text{Nd}$ system

Amritraj Mahato, Nitin Sharma, Pankaj K. Giri, D. Singh, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, 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

26. A study of pre-equilibrium particle emission in $^{19}\text{F} + ^{154}\text{Sm}$ system

D. Singh, Amritraj Mahato, Pankaj K. Giri, Nitin Sharma, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, 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.

27. Effects of projectile break-up on fusion

Rahbar Ali, D. Singh, Harish Kumar, **Suhail A. Tali**, 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. **64** (2019) 445.

28. Systematic study on low energy incomplete fusion dynamics and its correlation with various entrance channel effects

Amritraj Mahato, Pankaj K. Giri, D. Singh, Nitin Sharma, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh
DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. **64** (2019) 443.

29. Effects of projectile break-up on fusion

Rahbar Ali, D. Singh, Harish Kumar, **Suhail A. Tali**, 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. **64** (2019) 445.

30. Systematic study on low energy incomplete fusion dynamics and its correlation with various entrance channel effects

Amritraj Mahato, Pankaj K. Giri, D. Singh, Nitin Sharma, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh
DAE–BRNS Symp. Nucl. Phys. University of Lucknow, UP (India), Vol. **64** (2019) 443.

31. Investigation of break-up fusion process below 8 MeV/nucleon energies

Harish Kumar, **Suhail A. Tali**, 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. **63** (2018) 506.

32. Low energy incomplete fusion study in the $^{16}\text{O} + ^{142}\text{Nd}$ system

Pankaj K. Giri, D. Singh, Sneha B. Linda, Amritraj Mahato, Harish Kumar, **Suhail A. Tali**, 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. **63** (2018) 630.

33. Probing of incomplete fusion by measurements of excitation functions in $^{14}\text{N} + ^{124}\text{Sn}$ system

Amritraj Mahato, D. Singh, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, **Suhail A. Tali**, Siddharth Parashari, Asif Ali, Rakesh Dubey, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh
DAE–BRNS Int. Symp. Nucl. Phys. BARC, Mumbai (India), Vol. **63** (2018) 632.

34. Study of incomplete fusion sensitivity to projectile structure from recoil range distribution measurement

Harish Kumar, **Suhail A. Tali**, 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. **62** (2017) 366.

35. Investigation of incomplete fusion dynamics by measurement of recoil range distribution in $^{16}\text{O} + ^{124}\text{Sn}$ system

Sneha Bharti Linda, Pankaj K. Giri, D. Singh, Amritraj Mahato, Harish Kumar, **Suhail A. Tali**, 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. **62** (2017) 384.

36. Study of break-up fusion process from excitation function measurement in $^{16}\text{O} + ^{148}\text{Nd}$ system

Pankaj K. Giri, Sneha Bharti Linda, D. Singh, Amritraj Mahato, Harish Kumar, **Suhail A. Tali**, Siddharth Parashari, Asif Ali, M. Afzal Ansari, Rakesh Dubey, R. Kumar, S. Muralithar and R. P. Singh
DAE–BRNS Symp. Nucl. Phys. TIET, Patiala (India), Vol. **62** (2017) 540.

37. Study of projectile break-up process at intermediate energies

Harish Kumar, Siddharth Parashari, **Suhail A. Tali**, M. Afzal Ansari, Asif Ali, D. Singh, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, R. P. Singh, Rakesh Kumar and S. Muralithar

National Conference on Recent Trends in Nuclear Physics, held during February 15-16, 2016 at A.M.U., Aligarh (India).

38. Alpha Q-value effect on incomplete fusion dynamics below 8 MeV/nucleon energies

Harish Kumar, Suhail A. Tali, M. Afzal Ansari, D. Singh, Rahbar Ali, Siddharth Parashari, Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar

DAE–BRNS Symp. Nucl. Phys. SINP, Kolkata (India), Vol. **61** (2016) 450.

39. Study of break-up fusion process from forward recoil range distribution measurements

Harish Kumar, Suhail A. Tali, M. Afzal Ansari, D. Singh, Rahbar Ali, Siddharth Parashari, Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indu Bala, Rakesh Kumar, R. P. Singh and S. Muralithar

National Conference on Nuclear and Accelerator Physics (NCNAP-2016), held during October 4-6, 2016 at CUJ, Ranchi (India).

40. Effect of projectile structure on angular distribution of recoiling residues

Siddharth Parashari, Harish Kumar, Suhail A. Tali, Asif Ali, M. Afzal Ansari, D. Singh, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, R. P. Singh, S. Muralithar and Rakesh Kumar

DAE–BRNS Symp. Nucl. Phys. SINP, Kolkata (India), Vol. **61** (2016) 448.

41. Investigation of incomplete fusion by measurement of excitation functions in the $^{14}\text{N} + ^{27}\text{Al}$ system

Pankaj K. Giri, Sneha Bharti Linda, D. Singh, Harish Kumar, Suhail A. Tali, 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. **61** (2016) 522.

42. Study of complete and incomplete fusion dynamics in the interaction of ^{14}N with ^{148}Nd

Pankaj K. Giri, Sneha Bharti Linda, D. Singh, Harish Kumar, Suhail A. Tali, 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. **61** (2016) 524.

43. Probing of complete and incomplete fusion dynamics by the measurement of excitation function in $^{16}\text{O} + ^{124}\text{Sn}$ system

Sneha Bharti Linda, Pankaj K. Giri, D. Singh, Harish Kumar, Suhail A. Tali, 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. **61** (2016) 544.

44. Investigation of incomplete fusion dynamics below ≈ 8 MeV/nucleon energies

Asif Ali, Harish Kumar, M. Afzal Ansari, **Suhail A. Tali**, 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).

45. Angular distribution: A probe for incomplete fusion investigation

Siddharth Parashari, Harish Kumar, M. Afzal Ansari, **Suhail A. Tali**, 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).

46. Linear momentum transfer effect on incomplete fusion process at energy ≈ 88 MeV

Harish Kumar, Siddharth Parashari, M. Afzal Ansari, D. Singh, Rahbar Ali, **Suhail A. Tali**, 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. **60** (2015) 474.

47. Competition between complete and incomplete fusion reaction mechanism below 8 MeV/nucleon energies

Asif Ali, Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, **Suhail A. Tali**, 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. **60** (2015) 554.

48. Investigation of incomplete fusion dynamics from the measurement of angular distributions at $E \approx 88$ MeV

Siddharth Parashari, Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, **Suhail A Tali**, 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. **60** (2015) 476.

49. Mass-asymmetry effect on incomplete fusion process at energies ≈ 4 -7 MeV/nucleon

Harish Kumar, M. Afzal Ansari, D. Singh, Rahbar Ali, **Suhail A. Tali**, 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. **59** (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 2023

Projects guided at Masters Level

1. **Title of Project:** Study of Break-up Fusion Reactions with Heavier Mass Targets

Name of Students: Mr. Syed Sajad Ahmad and Mr. Irfan Gani Teli

Institute: Islamic University of Science & Technology- 2021.

2. **Title of Project:** Understanding Low Energy Incomplete Fusion Reactions Using Forward Recoil Range Distribution Measurements

Name of Students: Mr. Faisal Nawaz Teli, Mr. Shahid Ahad and Ms. Sania Aftab

Institute: Central University of Kashmir, 2023-2024

Other Responsibilities

1. Member of Technical Committee at Cluster University of Srinagar, since May 20th, 2025.
2. Member of IQAC at Cluster University of Srinagar, since July 1st, 2025.
3. Member of Admission Committee at Cluster University of Srinagar, since September 20th, 2025.

References

1. Prof. (Rtd.) Mohd. Afzal Ansari
Experimental Nuclear Physicist
Department of Physics
Aligarh Muslim University
Aligarh (U.P), India-202002
Email: drmafzalansari@yahoo.com
Mobile No. +91-9412596205

3. Dr. R. P. Singh
Scientist-H
Nuclear Physics -(GDA/INGA) Group
Inter-University Accelerator Centre
Aruna Asaf Ali Marg, New Delhi-
110067 email:- rps@iuac.res.in
Mobile No. +91-9868202784

2. Prof. Isar Ahmad Rizvi
Experimental Nuclear Physicist
Department of Physics
Aligarh Muslim University
Aligarh (U.P), India-202002
Email: isarrizvi@rediffmail.com
Mobile No. +91-8126032552

4. Dr. Habil H. J. Wollersheim
Ex-Scientist
Nuclear Spectroscopy Group
GSI Helmholtz Centre for Heavy Ion Research,
Darmstadt, Germany
Email:- h.j.wollersheim@gsi.de
Mobile No. +49-1702869686

PERSONAL INFORMATION

Date of Birth: January 10, 1989 **Marital Status:** Married **Religion:** Islam

Passport Number: S0206926 **Permanent Residence:** India

ORCID: 0000-0003-0564-5732 **Scopus ID:** 57193268036

Languages: English, Urdu, Hindi, Kashmiri (Native)