

# *Curriculum Vitae*

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## **Dr. Md. Sabir Ali**

**Assitant Professor**

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### **Career Objectives:**

- ◆ To learn and explore new ideas and to work as a successful and innovative academician.
- ◆ To be a part of a well reputed organization where initiative, hard work and learning through constructive criticism is always promoted.

### **Academic Qualifications:**

- ◆ **Ph.D. (Experimental Nuclear Physics)** from **Aligarh Muslim University, Aligarh (U. P.)** in **2016**.
- ◆ **B.Ed. (Physical Science)** from **Aligarh Muslim University, Aligarh (U. P.)** in **2009** with **1<sup>st</sup> Div. (62.2% Marks)**.
- ◆ **M.Sc. (Physics)** from **Aligarh Muslim University, Aligarh (U. P.)** in **2008** with **1<sup>st</sup> Div. (63.8% Marks)**.
- ◆ **B.Sc. (Physics Hons.)** from **Aligarh Muslim University, Aligarh (U. P.)** in **2006** with **2<sup>nd</sup> Div. (56.6% Marks)**.
- ◆ **SSCE (12<sup>th</sup>)** from **CBSE, New Delhi** in **2002** with **1<sup>st</sup> Div. (69.8% Marks)**.
- ◆ **SSE (10<sup>th</sup>)** from **CBSE, New Delhi** in **2000** with **1<sup>st</sup> Div. (66.2% Marks)**.

### **National Level Test Qualified:**

- ◆ **National Eligibility Test (CSIR-UGC) All India Rank 41 in Dec. 2010.**
- ◆ **Graduate Aptitude Test in Engineering (GATE-2010) (AIR-810, Score-336).**
- ◆ **Joint Entrance Screening Test (JEST-2010) (Percentile-93.5).**

## **Awards**

- ◆ Recipient of Al Burj R. Rahman Award (2016-17) for best PhD Thesis (Male) by Department of Physics, AMU Aligarh.
- ◆ Recipient of Third Prize for Oral Presentation in National Conference on Low Energy Nuclear Reaction Dynamics organized by Department of Physics, AMU Aligarh on 7-8 March, 2022.

## **Fellowship**

- ◆ Awarded Maulana Azad National Fellowship for Minority Students (MANF) by Ministry of Minority Affairs, Govt. of India for pursuing PhD during the year 2010-2014.

## **Current Position:**

- ◆ *Working as Assistant Professor of Physics at Polytechnic Darbhanga (Bihar) Maulana Azad National Urdu University (A Central University), Hyderabad 500 032.*

## **Research Field:**

- ◆ Experimental Nuclear Physics.

## **PhD Topic:**

*Study of Fusion Dynamics in Heavy Ion Interactions Below 8 MeV/nucleon.*

## **Research Supervisor:**

- ◆ **Prof. I. A. Rizvi**, Department of Physics, A. M. U., Aligarh.

## **Teaching Experience:**

- ◆ Eight year teaching experience at Diploma Engineering level.
- ◆ 4 years experience of UG and PG level laboratories at A. M. U. Aligarh.

## **Research Experience:**

- ◆ 4 years experience as a full-time PhD Scholar at Department of Physics, AMU Aligarh.

## **Papers published in International/National Journals:**

1. Avinash Agarwal, Anuj Kumar Jashwal, Munish Kumar, S. Prajapati, Sunil Dutt, Muntazir Gull, I. A. Rizvi, Kamal Kumar, **Sabir Ali**, Abhishek Yadav, R. Kumar, and A. K. Chaubey "Role of the

- entrance channel in the experimental study of incomplete fusion of  $^{13}\text{C}$  with  $^{93}\text{Nb}$ ” Physical Review C, vol.105, pp.034609, 10 March, 2022.
2. Avinash Agarwal, Anuj Kumar Jashwal, Munish Kumar, S. Prajapati, Sunil Dutt, Muntazir Gull, I. A. Rizvi, Kamal Kumar, **Sabir Ali**, Abhishek Yadav, Rakesh Kumar, and A. K. Chaubey “Effect of neutron excess in the entrance channel on the  $^{18}\text{O} + ^{93}\text{Nb}$  to incomplete system: An experimental study relevant to incomplete-fusion dynamics” Physical Review C, Vol. 103, pp.034602, 02 March 2021.
  3. **Sabir Ali**, Kamal Kumar, Muntazir Gull, Tauseef Ahmad, I. A. Rizvi, Avinash Agarwal, A. K. Chaubey and S. S. Ghugre “Systematic of fusion incompleteness in reactions induced by  $\alpha$  cluster projectile” Physical Review C, vol.100, pp.064607-10, 19 December, 2019.
  4. Muntazir Gull, Kamal Kumar, **Sabir Ali**, I. A. Rizvi, S. Dutt, S. Prajapati, M. Kumar, Avinash Agarwal, A. Yadav and R. Kumar “Systematic study of incomplete fusion reactions: Role of various entrance channel parameters” Indian Journal of Pure and Applied Physics, vol. 58, April 2020, pp.-263-266.
  5. Muntazir Gull, Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, Sunil Dutt, I. A. Rizvi, Avinash Agarwal and R. Kumar “Incomplete fusion in  $^{16}\text{O} + ^{89}\text{Y}$  reactions at energies of  $\approx 7$  MeV/ nucleon” Physical Review C, vol. 98, pp. 034603-10, 05 September, 2018.
  6. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, Muntazir Gull, I. A. Rizvi, Avinash Agarwal, S. S. Ghugre, A. K. Sinha and A. K. Chaubey “Role of partial linear momentum transfer on incomplete fusion reaction” Eur. Phys. J. A., vol. 54, pp. 56, 16 April, 2018.
  7. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I. A. Rizvi, Avinash Agarwal, S. S. Ghugre, A. K. Sinha, and A.K. Chaubey “Effect of projectile break-up threshold energy on incomplete fusion at energy  $\approx 4-7$  MeV/nucleon” Journal of Modern Physics, vol. 5, pp.2063-2074, 7 December, 2014.
  8. Kamal Kumar, Tauseef Ahmad, **Sabir Ali**, I. A. Rizvi, Avinash Agarwal, R. Kumar and A. K. Chaubey “Role of incomplete fusion of the projectile in  $^{16}\text{O} + ^{115}\text{In}$  interaction at low energies” Physical Review C, vol. 89, pp.054614-8, May 2014.
  9. Kamal Kumar, Tauseef Ahmad, **Sabir Ali**, I. A. Rizvi, Avinash Agarwal, R. Kumar, and A. K. Chaubey “Influence of projectile breakup on  $^{16}\text{O} + ^{115}\text{In}$  reaction at energies  $\approx 4-7$  MeV/ nucleon” Physical Review C, vol. 88, pp.064613-9, December 2013.
  10. Kamal Kumar, Tauseef Ahmad, **Sabir Ali**, I. A. Rizvi, Avinash Agarwal, R. Kumar, K. S. Golda, and A. K. Chaubey “Low energy incomplete fusion and its sensitivity to projectile structure” Physical Review C, vol. 87, pp.044608-9, April 2013.

## **Papers published in International/National Symposia Proceedings:**

### ***International Conferences***

1. Muntazir Gull, **Sabir Ali**, Kamal Kumar, I. A. Rizvi, Rakesh Kumar, Avinash Agarwal, Sunil Prajapati, Munish Kumar, Abhishek Yadav “Fusion incompleteness in non  $\alpha$  cluster projectile: Role of excess neutrons” in proceedings of DAE Symposium on Nuclear Physics, BARC Mumbai (India) vol. 65, pp.371-372, December 01-05 2021.
2. Muntazir Gull, **Sabir Ali**, K. Kumar, I.A. Rizvi, T. Ahamad, S. Dutt, R. Kumar, A. Agarwal, A.K. Chaubey, Rumaisa Jan, Nazima Shabir, Bisma Amin “Study of incomplete fusion dynamics in the light of critical angular momentum and universal fusion function” in proceedings of DAE Symposium on Nuclear Physics, BARC Mumbai (India) vol. 65, pp.373-374, December 01-05 2021.

3. Muntazir Gull, Kamal Kumar, **Sabir Ali**, Sunil Dutt, Sunil Prajapati, Munish Kumar, Avinash Agarwal, Abhishek Yadav, R. Kumar and I. A. Rizvi, "Fusion incompleteness in non " in proceedings of DAE Symposium on Nuclear Physics, BARC Mumbai (India) vol. 63, pp.426-427, December 10-14, 2018.
4. Munish Kumar, Avinash Agarwal, Sunil Dutt, Kamal Kumar, R. Kumar, I. A. Rizvi, Abhishek Yadav, Muntazir Gull, **Sabir Ali** and A. K. Chaubey " Effect of entrance channel parameters on incomplete fusion reaction dynamics at low energies" DAE Symposium on Nuclear Physics, BARC Mumbai (India) vol. 63, pp.606-607, December 10-14, 2018.
5. Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, I. A. Rizvi, Avinash Agarwal, Rakesh Kumar, and A.K. Chaubey "Low energy complete fusion: observations of a significant incomplete fusion at  $\ell < \ell_{crit}$  " in EPJ Web of Conferences 86, 0011 , January 2015.
6. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I. A. Rizvi, Avinash Agarwal, S.S. Ghugre, A.K. Sinha, and A.K. Chaubey "Investigation of complete and incomplete fusion in  $^{20}\text{Ne}+^{51}\text{V}$  system using recoil range measurement" in EPJ Web of Conferences 86, 0002, January 2015.
7. Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, I. A. Rizvi, Avinash Agarwal and A.K. Chaubey "Role of entrance channel parameters on incomplete fusion reaction dynamics" in Proceedings of the International Symposium on Nuclear Physics, BARC Mumbai (India) vol. 58, pp.406-407, December, 2-6, 2013.
8. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I. A. Rizvi, Avinash Agarwal S. S. Ghugre, A. K. Sinha, and A.K. Chaubey "Evidence of partial linear momentum transfer in  $^{20}\text{Ne}+^{51}\text{V}$  system at energy 7MeV/nucleon" in Proceedings of the International Symposium on Nuclear Physics, BARC Mumbai (India) vol. 58, pp.464-465, December, 2-6, 2013.
9. **Sabir Ali**, Kamal Kumar, Tauseef Ahmad, I. A. Rizvi, Avinash Agarwal and A.K. Chaubey "Systematics of incomplete fusion probability and its correlation with complete fusion suppression" in AIP Conference Proceedings 1524, pp.178-181, 2013.
10. Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, I. A. Rizvi, Avinash Agarwal and A.K. Chaubey "Effect of projectile break-up on incomplete fusion reaction dynamics" in AIP Conference Proceedings 1524, pp.182-185, 2013.
11. Avinash Agarwal, Suneel Dutt, Anjali Sharma, I. A. Rizvi, Kamal Kumar, **Sabir Ali**, T. Ahmad, Rakesh Kumar and A. K. Chaubey "Investigation of the influence of incomplete fusion on complete fusion of  $^{16}\text{O}$ - induced reactions at moderate excitation energies." EPJ Web of Conferences 38, 17001-4 (2012).

### *National Conferences*

1. Muntazir Gull, Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, Sunil Dutt, I. A. Rizvi, Avinash Agarwal, and R. Kumar and A. K. Chaubey "Effect of two neutron excess projectile on low energy incomplete fusion dynamics" in Proceedings of the DAE Symposium on Nuclear Physics, Thapar University Patiyala, vol. 62, pp.442-443, December 20-24, 2017.
2. Muntazir Gull, Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, Sunil Dutt, I. A. Rizvi, Avinash Agarwal, and R. Kumar and A. K. Chaubey "Effect of two neutron excess projectile on low energy incomplete fusion dynamics" in Proceedings of the DAE Symposium on Nuclear Physics, Thapar University Patiyala, vol. 62, pp.442-443, December 20-24, 2017.
3. Munish Kumar, Avinash Agarwal, S. Prajapati, Sunil Dutt, Kamal Kumar, R. Kumar, I. A.

Rizvi, Abhishek Yadav, M. Gull, **S. Ali** and A. K. Chaubey “Effect of projectile structure on incomplete fusion reaction dynamics for vanadium” in Proceedings of the DAE Symposium on Nuclear Physics, Thapar University Patiyala, vol. 62, pp.654-655, December 20-24, 2017.

4. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, Muntazir Gull, I. A. Rizvi, Sunil Dutt, Avinash Agarwal, A. K. Sinha and A.K. Chaubey “Fusion incompleteness in reaction induced by  $^{20}\text{Ne}$  at energy  $\approx 4\text{-}7\text{ MeV/A}$ ” in Proceedings of the DAE Symposium on Nuclear Physics, SINP (Kolkata), vol. 61, pp.540-541, December 05-09, 2016.
5. Muntazir Gull, Kamal Kumar, Tauseef Ahmad, **Sabir Ali**, Sunil Dutt, I. A. Rizvi, Avinash Agarwal, R. Kumar and A.K. Chaubey “Investigation complete and incomplete fusion by recoil range distribution measurements  $\approx 105\text{ MeV}$ ” in Proceedings of the DAE Symposium on Nuclear Physics, SINP (Kolkata), vol. 61, pp.566-567, December 05-09, 2016.
6. Avinash Agarwal, Munish Kumar, Sunil Dutt, Kamal Kumar, R. Kumar, I. A. Rizvi, Abhishek Yadav, Muntazir Gull, **Sabir Ali**, and A.K. Chaubey “Measurement and analysis of some excitation functions in heavy induced reactions: A case of  $^{18}\text{O} + ^{51}\text{V}$  system Investigation complete and incomplete fusion by recoil range distribution measurements  $\approx 105\text{ MeV}$ ” in Proceedings of the DAE Symposium on Nuclear Physics, SINP (Kolkata), vol. 61, pp.642-643, December 05-09, 2016.
7. 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 “Probing of incomplete fusion from the measurement of recoil range distributions” in Proceedings of the DAE Symposium on Nuclear Physics, Prasanthi Nilayam, vol. 60, pp.520-521, December 07-11, 2015.
8. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I. A. Rizvi, Sunil Dutt, Avinash Agarwal, S. S. Ghugre, A. K. Sinha and A.K. Chaubey “Dependence of incomplete fusion reaction on projectile structure” in Proceedings of the DAE Symposium on Nuclear Physics, Prasanthi Nilayam, vol. 60, pp.582-583, December 07-11, 2015.
9. Kamal Kumar, Sunil Dutt, **Sabir Ali**, Tauseef Ahmad, I. A. Rizvi, Avinash Agarwal and A.K. Chaubey “Large Influence of fusion incompleteness in incomplete fusion reaction dynamics at low energies” in Proceedings of the National Symposium on Nuclear Physics, BHU (Varanasi) vol. **59**, pp.414-415, December, 7-12, 2014.
10. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I. A. Rizvi, Sunil Dutt, Avinash Agarwal S. S. Ghugre, A. K. Sinha, and A.K. Chaubey “Study of complete and incomplete fusion reactions at near and above the barrier energy” in Proceedings of the National Symposium on Nuclear Physics, BHU (Varanasi) vol. **59**, pp.480-481, December, 7-12, 2014.
11. Kamal Kumar, Tauseef Ahmad, **Sabir Ali**, I.A. Rizvi, Avinash Agarwal, Rakesh Kumar, K.S. Golda and A.K. Chaubey “Influence of incomplete fusion on complete fusion in  $^{16}\text{O} + ^{115}\text{In}$  interaction” in Proceedings of the DAE Symposium on Nuclear Physics, University of Delhi, Delhi, vol. 57, pp.514-515, December 03-07, 2012.
12. Kamal Kumar, **Sabir Ali**, Tauseef Ahmad, I.A. Rizvi, Avinash Agarwal and A.K. Chaubey “Effect of projectile structure on incomplete fusion reaction dynamics” in Proceedings of the DAE Symposium on Nuclear Physics, University of Delhi, Delhi, vol. 57, pp.516-517, December 03-07, 2012.
13. **Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I.A. Rizvi, Avinash Agarwal and A.K. Chaubey “Study of incomplete fusion probability induced by  $^{20}\text{Ne}$  on different targets” in Proceedings of the DAE Symposium on Nuclear Physics, University of Delhi, Delhi, vol. 57, pp.538-539,

December 03-07, 2012.

**14. Sabir Ali**, Kamal Kumar, Tauseef Ahmad, I.A. Rizvi, Avinash Agarwal and A.K. Chaubey “Fusion and break-up cross section of alpha cluster projectiles on  $^{51}\text{V}$  target” in Proceedings of the DAE Symposium on Nuclear Physics, University of Delhi, Delhi, vol. 57, pp.540-541, December 03-07, 2012.

**15.** Kamal Kumar, Tauseef Ahmad, **Sabir Ali**, I.A. Rizvi, Avinash Agarwal, Rakesh Kumar, K.S. Golda and A.K. Chaubey “Study of reaction dynamics in  $^{16}\text{O} + ^{115}\text{In}$  system using recoil range distribution” in Proceedings of the DAE Symposium on Nuclear Physics, Andhra University, Visakhapatnam, vol. 56, pp.462-463, December 26- 30, 2011.

**16. Sabir Ali**, Tauseef Ahmad, Kamal Kumar, I.A. Rizvi, Avinash Agrawal, S.S. Ghugre, A.K. Sinha and A.K. Chaubey “Investigation of the role of break up processes in the fusion of the  $^{20}\text{Ne} + ^{51}\text{V}$  system” in Proceedings of the DAE Symposium on Nuclear Physics, Andhra University, Visakhapatnam, vol. 56, pp.588-589, December 26-30, 2011.

### **Computer Efficiency:**

- ◆ LINUX, ORIGIN, INTERNET, MS OFFICE, EXCEL, Latex.

### **Personal Details:**

Name	:	<b><i>Md Sabir Ali</i></b>
Father's Name	:	Md Hafiz Ali
Mother's Name	:	Husanara Begam
Date of Birth	:	1 <sup>st</sup> April 1984
Sex	:	Male
Nationality	:	Indian
Marital Status	:	Married
Languages Known	:	Hindi, English, Urdu
Permanent Address	:	House No.114A Masjid Mohalla Main Road Putki Post: Kusunda, P.S: Putki Dist. Dhanbad 828116 Jharkhand

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