

Curriculum Vitae

Manpreet Kaur

Assistant Professor
Department of Physics
Sri Guru Granth Sahib World Uni.
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Punjab, India

Objective : To work with honesty, dedication and utilize my capabilities in the best interests of the organization and to excel in the given field through hard work.

Personal Information :

Father's Name : S. Gurmukh Singh
Date of Birth : 24-07-1989
Marital Status : Unmarried
Nationality : Indian
Languages Known : Punjabi, Hindi, English
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Academic Qualifications :

Qualification	Board/ Univ.	Year of passing	% of marks
Ph.D. (Theoretical Nuclear Physics)	S.G.G.S.W.U. Fatehgarh Sahib	2013 onwards	Pursuing
M.Sc. (Physics)	P.U., Chandigarh	2011	73.6
B.Sc. (Non-Medical)	P.U., Chandigarh	2009	83.3
+2 (Non-Medical)	P.S.E.B.	2006	83.3
Matric	P.S.E.B.	2004	87.4

Academic achievements:

- **5th position in Panjab University in M.Sc. (Physics)**
- **Merit position holder in +2 (Non-Med.) P.S.E.B. Exam.**

Research Project: Project fellow in DST funded project entitled "Study of mass asymmetry and various potentials in heavy ion collisions at intermediate energies" during Jan. 2014 - July 2016.

Publications:

A. International Journals:

1. *Heavy ion collision dynamics of $^{10,11}\text{B} + ^{10,11}\text{B}$ reactions*, BirBikram Singh, **Manpreet Kaur**, Varinderjit Kaur, Raj K. Gupta, **Eur. Phys. J. Web of Conferences** 86, 00048 (2015).
2. *Fusion-Fission of extremely light mass compound systems $^{20,21,22}\text{Ne}^*$* , BirBikram Singh, **Manpreet Kaur**, Raj K. Gupta, **Journal of Physics: Conference Series** 6, 030001 (2015).
3. *Asymmetry effects in fragment production*, **Manpreet Kaur**, Varinderjit Kaur, **American Inst. of Phys. Proceedings** 1728, 020475 (2016).
4. *Role of different parts of NN potential on fragment production in asymmetric collisions and their rapidity dependence* **Manpreet Kaur**, Mandeep Kaur, Varinderjit Kaur, **Eur. Phys. J. A** (submitted).
5. *Decay study of light mass α and non- α compound systems*, **Manpreet Kaur**, BirBikram Singh, **Phys. Rev. C** (to be submitted).
6. *Role of NN potential components in isobaric pair fragmentation*, **Manpreet Kaur**, Varinderjit Kaur, **Perspectives in Science, Elsevier** (submitted).

B. Conference Proceedings:

1. *Competing reaction mechanisms in the decay of $^{20}\text{Ne}^*$ for $Z=5,6,7$ fragments at different excitation energies*, **Manpreet Kaur**, BirBikram Singh, Proceedings of the DAE Symp. on Nucl. Phys. **60**, 584 (2015).
2. *Nuclear structure effects in the decay of α and non- α compound systems*, **Manpreet Kaur**, BirBikram Singh, Proceedings of the DAE Symp. on Nucl. Phys. **60**, 590 (2015).
3. *Study of different components of potential in Isobaric pair collisions*, **Manpreet Kaur**, Varinderjit Kaur, Proceedings of the DAE Symp. on Nucl. Phys. **60**, 444 (2015).
4. *Dynamics of odd mass lighter compound system at different excitation energies*, **Manpreet Kaur**, BirBikram Singh, Proceedings National Conf. of Physics, Khalsa College, Amritsar (2015).
5. *Intermediate mass fragment production due to momentum dependent interactions in mass asymmetric collisions*, **Manpreet Kaur**, Varinderjit Kaur, Suneel Kumar, Proceedings of the DAE Symp. on Nucl. Phys. **59**, 418 (2014).
6. *Deformation and orientation effects in the binary symmetric decay of $^{20,21,22}\text{Ne}^*$* , BirBikram Singh, **Manpreet Kaur**, Raj K. Gupta, Proceedings of the DAE Symp. on Nucl. Phys. **59**, 516 (2014).

7. *Decay of compound system $^{179}\text{Re}^*$ formed in $^{20}\text{Ne} + ^{159}\text{Tb}$ reaction using dynamical cluster decay model*, **Manpreet Kaur**, BirBikram Singh, Proceedings of the DAE Symp. on Nucl. Phys. **59**, 620 (2014).
8. *Nuclear structure effects in fusion-fission of compound systems $^{20,21,22}\text{Ne}^*$ formed in $^{10,11}\text{B} + ^{10,11}\text{B}$ reactions*, BirBikram Singh, **Manpreet Kaur**, Varinderjit Kaur, Raj K. Gupta, Proceedings Fission 75 years on Nuclear fission, BARC, Mumbai, **p.52** (2014).
9. *Impact of momentum dependent equation of state on fragmentation due to mass asymmetric collisions*, Varinderjit Kaur, **Manpreet Kaur**, Proceedings Fission 75 years on Nuclear fission, BARC, Mumbai, **p.55** (2014).
10. *Asymmetry effects in fragment production*, **Manpreet Kaur**, Varinderjit Kaur, Proceedings National Conference of Physics Conference, Khalsa College, Patiala (2014).
11. *Decay of hot and rotating compound system $^{189}\text{Au}^*$ using dynamical cluster decay model*, **Manpreet Kaur**, BirBikram Singh, Jagmanpreet Kaur, Proceedings National Conference of Physics Conference, Khalsa College, Patiala (2014).
12. *Angular momentum effects in the decay of $^{179}\text{Re}^*$ compound system formed in $^{20}\text{Ne} + ^{159}\text{Tb}$ reaction*, **Manpreet Kaur**, BirBikram Singh, Amandeep Kaur, Proceedings National Conference of Physics, Khalsa College, Patiala (2014).
13. *Role of angular momentum in decay of compound system $^{20}\text{Ne}^*$ formed in $^{10}\text{B} + ^{10}\text{B}$ reaction*, BirBikram Singh, **Manpreet Kaur**, Varinderjit Kaur, Proceedings National Conference on Emerging horizons in science and technology at S.G.G.S.W.U., Fatehgarh Sahib, (2014).
14. *Dynamical cluster decay model for the decay of very light mass compound nuclei formed in heavy ion collisions*, BirBikram Singh, Mandeep Kaur, **Manpreet Kaur**, Proceedings 17th Punjab Science congress, Punjab Technical University, Jalandhar (2014).
15. *Role of angular momentum in the decay of very light mass compound nuclei formed in heavy ion collisions*, BirBikram Singh, **Manpreet Kaur**, Mandeep Kaur, Proceedings National Symposium on emerging trends in physics for ionizing radiations, aerosols & material science, Punjabi university, Patiala (2013).

Workshops/ Scientific Schools/ Conferences attended:

1. **National Symposium on A Journey from Nuclei to Quarks** at Variable Energy Cyclotron Centre, Kolkata, June 29-30, 2016.
2. **International Conference** on Recent trends in engineering & materials science, Jaipur National University, Jaipur, March 17-19, 2016.
3. **60th DAE Symp. on Nucl. Physics** at Sri Sathya Sai Institute of Higher Learning, Andhra Pradesh, Dec. 7-11, 2015.
4. **International Conference** on Condensed matter and applied Physics, Govt. Engineering College, Bikaner, Oct. 30-31, 2015.

5. **Nuclear Physics Meet** held at Institute of Physics, Bhubaneswar, June 26-30, 2015.
6. **National Conference** on Current advances in Physical Sciences at Khalsa College, Amritsar, March 11, 2015.
7. **59th DAE Symp. on Nucl. Physics** at Banaras Hindu University, Varanasi, Dec. 8-12, 2014.
8. **National Physics Conference** at Khalsa College, Patiala, Oct. 30, 2014.
9. **Summer School on Nuclear fission and related phenomenon** organized by Centre for Nuclear Theory at VECC, Kolkata during May 13-23, 2014.
10. **Symposium on 75 years of Nuclear fission** at BARC, Mumbai, May 8-10, 2014.
11. **National Symposium** on Emerging horizons in science and technology, Sri Guru Granth Sahib World University, Jan. 17-18, 2014.
12. **National Symposium** on Emerging trends in physics for ionizing radiations, aerosols & material science, Punjabi University, Patiala, Dec. 13-14, 2013.
13. **National Workshop** on Radiochemistry & applications of radioisotopes conducted jointly by Department of Physics, K.U. , Kurukshetra and IANCAS (Indian Association of Nuclear Chemists & Allied Scientists) on Oct 23-27, 2013.

Computer Knowledge: MS Office, Fortran for scientific Problems, Linux, Origin, Latex

(MANPREET KAUR)