

Name: Dr Simanta Chutia

1. **Designation:** Associate Professor
2. **Qualification:** M.Sc., Ph. D.
3. **Research Completed:** Title of the thesis “A Study of Certain Properties of Super fluid Helium-4 Using Macro-orbital Theory”.
4. **University from which Research is completed:** North Eastern Hill University
5. **Topic of Research Completed:**
 - i. Topic of Ph. D. research: “A Study of Certain Properties of Super fluid Helium-4 Using Macro-orbital Theory”
 - ii. Minor research Project completed: “A Study of Certain Properties of Super fluid Helium-4 Using Macro-orbital Theory”
6. **Research Interest:** Low Temperature Physics, Condensed Matter Physics, Quantum Mechanics
7. **Publications:**
 - i. **Surface tension and surface thickness of liquid helium-4 at T=0**, Simanta Chutia and Yatendra S Jain, Asian Journal of Physics, 18, 299 (2009).
 - ii. **Logarithmic singularities of specific heat and related properties of liquid helium-4 near λ -point**, Simanta Chutia and Yatendra S Jain, Asian Journal of Physics, 18, 305 (2009).
 - iii. **ON the origin of Stark effect of rotons in He-II and the existence of p=0 condensate**, Y.S. Jain, L. Chhangte, S. Chutia and S. Dey, Current Science, 101, 769 (2011).
 - iv. **Theories of Liquid Helium-4**, S. Chutia and L. Chhangte, Indian Journal of Science and Technology, 6 (S3), 73 (2013).
 - v. **A study of Phase Diagram of Liquid Helium Mixtures**, L. Chhangte, S Chutia and Y.S. Jain, Indian Journal of Science and Technology, 6(S3), 67 (2013).
 - vi. **Miscibility Gap of Liquid ^3He - ^4He Mixture**, S Chutia, L Chhangte and YS Jain, in “Basic and Applied Physics”, Ramesh Chandra Tiwari and Zaithanzauva Pachuau Editors, Narosa, New Delhi, 2016.
 - vii. **Lambda Temperatures of Liquid Helium Mixtures**, S Chutia, in “Recent Advances in Physics Research and Its Relevance”, S Chutia and S Saikia, Editors, Excel India, New Delhi, 2017.
8. **Conferences and Seminars attended (2014-2018):**
 - a. The 101st Indian Science Congress, University of Jammu, 3rd -7th February, 2014.
 - b. Workshop on “Testing and Quality Control of Plastic Products”, Central Institute of Plastic Engineering and Technology, Guwahati, 10th -21st March, 2014.
 - c. Faculty Development Programme on Research Capability Enhancement at SAC on 23rd August, 2014.
 - d. Workshop on Evaluation and Paper Setting, North Eastern Hills University, 4th -5th December, 2014.
 - e. The 9th Biennial Conference of Physics Academy of North East, NERIST, Nirjuli, Arunachal Pradesh, 18th-20th December, 2014.
 - f. The 10th Biennial Conference of Physics Academy of North East, St. Anthony’s College, Shillong, 10th -12th November, 2016.

- g. Twenty third Mid-Year Meeting of Indian Science Academy, Mysore, 28th -30th June, 2018.