

Curriculum Vitae



Name: Dr. MUNMI GOHAIN

Date of Birth: 25-11-1987

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Linguistic Skills: English, Assamese and Hindi

Nationality: Indian

Academic Credentials

Educational Qualifications:

- **Tezpur University: PhD in Plasma Physics**
PhD (research) title: “A theoretical study of eigen-mode structure formation in plasmas”.
- **Tezpur University: M.Sc in Physics**
Specialization: *High Energy Physics.*
- **Dibrugarh University (JIST) : B.Sc in Physics**

List of publications in peer reviewed journals:

1. M. Borah, K. Borah, **M. Gohain** and M. K. Das “*Parameterisation of Neutrino Mass Models and different mixing Scenario*”, IJPAP, Vol. 8, pp. 79-86, 2012.
2. P. K. Karmakar, **M. Gohain**, and U. Deka, “Stability analysis of polytropic solar wind”, *Canadian Journal of Physics*, vol. 92, no. 11, pp. 1419-1424, 2014.
3. **M. Gohain** and P. K. Karmakar, “Gravito-electrostatic fluctuations of a polytropic charge dust cloud”, *Physica Scripta*, vol. 89, no. 125604, pp. 1-16, 2014.
4. **M. Gohain** and P. K. Karmakar, “A generalized two-fluid model of plasma sheath equilibrium structure”, *Europhysics Letters*, vol. 112, pp. 1-6, 2015.

5. **M. Gohain** and P. K. Karmakar, “A perturbative correction for electron-inertia in magnetized sheath structures”, *European Physical Journal D*, vol. 70, pp. 222(1)-222(6), 2016.
6. **M. Gohain** and P. K. Karmakar, “Nonextensive turbulent gravito-electrostatic sheath (GES) equilibrium structure”, *Europhysics Letters*, vol. 117, pp. 1-6, 2017.
7. **M. Gohain** and P. K. Karmakar, “Normal mode behaviors in solar prominence plasmas”, *Journal of Physics: Conference Series*, vol. 836, pp. 012006(1-5), 2017.
8. **M. Gohain** and P. K. Karmakar, “Evolutionary sheath structure in magnetized collisionless plasma with electron inertia”, *Plasma Physics Reports*, pp. 1-12, 2017.

Conference papers presented:

1. A paper entitled “*Stability Analysis of Polytopic Solar Wind*” in National Conference on Theoretical Physics (NCTP) on 8-12 Feb, 2013 at Tezpur University.
2. A paper entitled “*New Coupled Pair Modified KdV Equation for Nonlinear Fluctuations in Self-gravitating Dusty Plasma*”, in 7th International Conference on the Physics of Dusty Plasmas (ICDPD) on 3-7 March, 2014 in New Delhi.
3. A paper entitled “*A Bi-fluidic Model of Stationary Magnetized Plasma Sheath Structure in Presence of Weak Electron Inertia*”, in National Conference on Current Issues in Cosmology, Astrophysics and High Energy Physics (CICAHEP) on 2-5 Nov, 2015 at Dibrugarh University.
4. A paper entitled “*A Generalized Two-fluid Model of Plasma Sheath Equilibrium Structure*”, in 30th National Symposium on Plasma Science and Technology on 1-4 Dec, 2015 at SINP, Kolkata.

Attended Forum:

- Participated in “*National Seminar on Photonics and Quantum Structures*” held at Tezpur University on 4-6 November, 2009.
- Participated in National workshop on “*Nuclear and Atomic Techniques based pure and applied Sciences*” held at Tezpur University on 01-03 Feb, 2011.
- Participated in Assam Science Society 56th annual technical session on “*Parameterisation or Neutrino Mass Models with different mixing Scenario*” held at Dibrugarh University on 26th March, 2011.

- Participated in a three days National Science academic lecture Workshop on “*Non-Linear Dynamics*” held at Tezpur University on 26-28 April, 2011.
- Participated in a workshop on “*Solar Astronomy*” held at Tezpur University on 17-19 December, 2013.
- Participated in a workshop on “*Nonlinear Dynamics and Application*” held at Tezpur University on 14-15 March, 2014.

School Attended:

Attended “*DST SERB School on Tokamaks and Magnetised Plasma Fusion*” at Institute for Plasma Research (IPR), held in Gujarat from 25th Feb -15th March, 2013.

Teaching experience:

- ❖ Served as Assistant Professor (Physics) in Jorhat Institute of Science and Technology (JIST) Jorhat, from 10th August 2018 to 6th March 2021.