CURRICULUM VITAE

PERSONAL INFORMATION

Name: Dr. Pranamika Dutta

Date of Birth: 01/03/1993

Email: pranamikadutta93@gmail.com

Phone: 9101990559

Permanent Address: Ward No-4, Jonaki Nagar, P.O.-Dhakuakhana, Dist-Lakhimpur, Assam-787055

Correspondence Address: Department of Physics, Moridhal College, Moridhal, Dhemaji, Assam-787057

Languages Known: Assamese, English, Hindi

Gender: Female

Nationality: Indian

Caste: General

CURRENT POSITION

Assistant Professor: Department of Physics, Moridhal College, Moridhal, Dhemaji, Assam-787057, Date of joining: 01/06/2023

Research Interest : Astrophysical Plasma Physics, Non-linear Dynamics, Solar Plasma

EDUCATIONAL QUALIFICATION

Exam Passed	Name of Board/ College/ University	Year
HSLC	SEBA	2008
HSSLC	AHSEC	2010
B.Sc.	Jorhat Institute of Science & Technology, Jorhat	2013
M.Sc	Tezpur University, Tezpur	2015
PhD	Tezpur University, Tezpur	2021

Exam Cleared: SLET, 2022

PUBLICATIONS:

Papers Published in National / International Journals:

1. P. Dutta, P. Das, & P. K. Karmakar, Stability analysis of non-thermal complex astrofluids in the presence of polarized dust-charge fluctuations, Astrophysics and Space Science, vol. 361, 322 (1-8) (2016). ISSN: 0004-640X (print) 1572-946X (web)
2. P. Dutta, & P. K. Karmakar, Viscoelastic pulsational mode. Astrophysics and Space Science, vol. 362, 142 (1-13) (2017). ISSN: 0004-640X (print) 1572-946X (web)
3. P. K. Karmakar & P. Dutta, Evolutionary pulsational mode dynamics in nonthermal turbulent viscous astrofluids, Astrophysics and Space Science, vol. 362, 203(1-8) (2017). ISSN: 0004-640X (print) 1572-946X (web).
4. P. K. Karmakar & P. Dutta, Nonlinear eigen-structures in star-forming gyratory nonthermal complex molecular clouds, Physics of Plasmas, 25, 012306 (2018). ISSN: 1070-664X (print) 1089-7674 (web).
5. P. Dutta, & P. K. Karmakar, Dynamics of gravoviscothermal instability in complex astrofluids amid cosmic radiative moderation effects, Astrophysics and Space Science, vol. 364, 217(1-8) (2019). ISSN: 0004-640X (print) 1572-946X (web).
6. P. Dutta, & P. K. Karmakar, Instability dynamics in gyrogravitating astroclouds with cosmic ray moderation in non-ideal MHD fabric, Pramana-Journal of Physics, vol. 95 (4), 169, 2021. ISSN: 0304-4289.

Papers presented in Conferences/Seminar:

1. P. Dutta, & P. K. Karmakar, Stability behavior of non-isothermal complex astroplasma in the presence of dust-charge fluctuations, 30th PSSI National Symposium on Plasma Science & Technology, SINP, Kolkata, 1-4 Dec, 2015.
2. P. Dutta, & P. K. Karmakar, Conjugational mode dynamics in anti-equilibrium molecular clouds, 32nd PSSI National Symposium on Plasma Science & Technology, IPR, Gandhinagar (Gujarat), 7-11 Nov, 2017.
3. P. Dutta, & P. K. Karmakar, Dynamics of conjugational mode evolution in boundless astrofluidic environments, 5th international conference on Complex Dynamical Systems and Applications (CDSA), IIT Guwahati, 4-6 Dec, 2017.
4. P. Dutta, & P. K. Karmakar, Evolution of conjugational hybrid mode in partially ionized astroplasmas, National Conference on materials, condensed matter and theoretical physics (NCMCTP), ADP College, Nagaon, 10-12 Dec, 2018.
5. P. Dutta, & P. K. Karmakar, Stability of gyrogravitating magnetized complex astroclouds with cosmic moderation effects. International e-Conference on Plasma Theory and Simulations (PTS-2020), Bilashpur, India, 14-15 Sep, 2020.

Book Chapters

1. P. Dutta, P. K. Karmakar (2020), **Evolution of conjugational hybrid mode in partially ionized astroplasmas,** Chapter in a book (Advances in Nuclear Physics and Condensed Matter), ISBN: 9388881206.
2. P. Dutta (2021), **Stability of gravitating spherical dust molecular cloud in the presence of Kappa-modified polytropic pressure correlation,** Chapter in a book (A Book On Recent Scientific Research), ISBN: 978-81-947664-7-6.