

Dr. ISMAT NAEEM

EDUCATION	PhD. Physics (Theoretical Plasma Physics) Quaid-i-Azam University, Islamabad	2021
	M.Phil. Physics (Theoretical Plasma Physics) Quaid-i-Azam University, Islamabad.	2008
	M.Sc. Physics Quaid-i-Azam University, Islamabad.	2006
	B.Sc. Islamabad College for Girls F-6/2, Islamabad.	2003
	HSSC Islamabad College for Girls F-6/2, Islamabad.	2001
	SSC Science F.G Girls Model School G-6/1-3 Islamabad	1999
TEACHING EXPERIENCE	Lecturer <i>Department of Physics International Islamic University, Islamabad</i>	FEB 2013 to Present (12 years, 7 months)
	Lecturer F.G Post Graduate College for Girls Wah Cantt <i>Federal Government Cantt and Garrison Institute</i>	DEC 2010 to FEB 2013 (2 year, 2 months)
	Lecturer <i>Bahria College E-8 Naval Complex Islamabad</i>	FEB 2008 to DEC 2010 (2 years, 10 months)
	Lecturer Islamabad College for Girls F-6/2, Islamabad.	AUG 2006 to FEB 2008 (1 year, 6 months)
	Lecturer <i>Ghazali College for Women, Islamabad.</i>	JAN 2006 to AUG 2006 (8 months)
PUBLICATIONS	1. Ismat Naeem , Arshad M. Mirza, W. Masood, T. Farid, Magnetic electron-drift vortex modes in an inhomogeneous quantum plasma, J. Plasma Physics 77, 367–375 (2011).	
	2. Nazia Batool, Ismat Naeem , Arshad M. Mirza and W. Masood, Ion-acoustic vortex formation in a non-uniform two-electron-temperature magnetoplasma with sheared ion flow, J. Plasma Physics 78, 65-69 (2012).	
	3. Ismat Naeem , S. Ali, P. H. Sakanaka and Arshad M. Mirza, Formation of solitary waves and oscillatory shocklets in a two-temperature electron kappa distributed plasma, Phys. Plasmas 24, 042109 (2017).	

4. S. Ali, **Ismat Naeem** and Arshad M. Mirza, Large-amplitude dust acoustic shocklets in non-Maxwellian dusty plasmas 24, 103706 (2017).
5. **Ismat Naeem**, W. Masood and Arshad M. Mirza, Shear flow driven counter rotating vortices in non-uniform magnetoplasmas with warm ions and generalized (r, q) distributed electrons, Physica Scripta 94, Number 12 (2019).
6. **Ismat Naeem**, W. Masood and Arshad M. Mirza, Dipolar and Kelvin-Stuart's cat's eyes vortices in magnetoplasmas with non-Maxwellian electron distributions, Astrophysics and Space Sciences 365, 52(1-11) (2020).
7. **Ismat Naeem**, Z. Ehsan, Arshad M. Mirza and G. Murtaza, Shocklets in the Comet Halley Plasma Phys. Plasmas 27, 043703 (2020).
8. **Ismat Naeem**, S. Ali, M. Irfan and Arshad M. Mirza, Ion-acoustic shocklets in Ionospheric plasma with nonthermal electrons, Physics of Letter A 384,126568 (2020).
9. **Ismat Naeem**, S. Ali and Arshad M. Mirza, Magnetosonic shocklets in electron-positron-ion plasmas, Physica Scripta, 95, 075601 (2020).
10. **Ismat Naeem**, W. Masood, N. Batool and Arshad M. Mirza, ITG mode driven vortices in spatially inhomogeneous magnetoplasma with generalized (r, q) distribution, Physica Scripta 95, 105606 (2020).
11. Sanawar Ali, S. Ali, **Ismat Naeem**, Yas Al-Hadeethi, Electron-acoustic solitary and shocklet structures with two-temperature relativistic degenerate electrons, Phys. Scr. 98, 025605 (2023).
12. Weaam Alhejaili, **Ismat Naeem**, Waqas Masood, Sherif. M. E. Ismaeel, and S. El-Tantawy, Tripolar vortices in inhomogeneous magnetoplasmas in the presence of non-Maxwellian electron distributions, Physics of Fluids 35, 073108 (2023).
13. M Alharbi, S Ali, **Ismat Naeem**, Yas Al-Hadeethi, Large-amplitude shocklets with trapped hot-electrons in space plasmas, Journal of Geophysical Research: Space Physics,128, e2023JA031401 (2023).

HONORS & AWARDS

Secured Second Position in B.Sc. Examination

Islamabad College for Girls F-6/2, Islamabad

Roll of Honour in B.Sc.

Islamabad College for Girls F-6/2, Islamabad

Departmental Merit Scholarship in M.Phil.

Quaid-i-Azam University, Islamabad

Best Teacher Award.

Bahria College E-8 Naval Complex Islamabad
Session 2009-2011

F.G Post Graduate College for Girls Wah Cantt
Session 2011-2013

MS/BS students supervised

- 1) Ms. Zain Nawaz Reg No. 649-FBAS/MSPHY/S22
Thesis Title: Drift Soliton and Shocks Waves in Non- Maxwellian Plasma

Date of Completion: January 2024

2) Ms. Noor ul Ain Ayesha Reg No. 656-FBAS/MSPHY/S22

Thesis Title: Electrostatic Vortices in Two Temperature Electron Magnetoplasma

Date of Completion: January 2024

3) Ms. Qandeel Ghazal Reg No. 680-FBAS/MSPHY/F22

Thesis Title: Nonlinear Electrostatic Structures in Relativistic Electron-ion Plasma with Warm Ions and Trapped Electrons

Date of Completion: September 2024

4) Ms Amna Shabbir Bukhari Reg No. 705-FOS/MSPHY/F23

Thesis Title: Electrostatic Drift Solitary Structures with Superthermal Electrons

Date of Completion: September 2025

5) Ms Alia Yasmeen Reg No. 699-FOS/MSPHY/F23

Thesis Title: Ion Temperature Gradient Mode Driven Soliton and Shocks in Electron Positron Ion Plasma

Date of Completion: September 2025

BS Student Supervised: More than 50 BS students in their final year project.

REFERENCES

1) Prof Dr. Arshad M. Mirza

Department of Physics UMT, Lahore

Department of Physics Quaid-i-Azam University, Islamabad

2) Prof Dr. Waqas Masood

Department of Physics COMSATS University, Islamabad.

3) Dr. Shahid Ali (Associate Professor)

National Centre for Physics Islamabad.