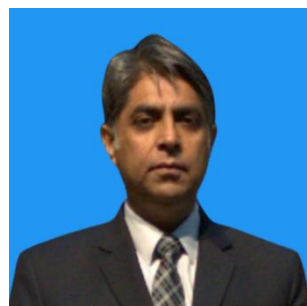


Prof. Dr. Muhammad Nouman Sarwar Qureshi

Director,
Institute of Physics (IOP).
Chairperson,
Department of Physics,
GC University, Lahore, Pakistan.
President
Pakistan Physical Society (PPS)



Service Experience

- | | | |
|----|---|--|
| 1. | Director
Institute of Physics (IOP), GC University, Lahore. | 22 nd November,
2024 to date |
| 2. | Chairperson
Department of Physics, GC University, Lahore. | 22 nd November,
2024 to date |
| 3. | Professor of Physics
Teaching Physics at Graduate and Postgraduate levels at the
Department of Physics, GC University, Lahore. | October 2018 to
date |
| 4. | Associate Professor of Physics
Teaching Physics at Graduate and Postgraduate levels at the
Department of Physics, GC University, Lahore. | December 2013 to
October 2018 |
| 5. | Assistant Professor of Physics
Teaching Physics at Graduate and Postgraduate levels at the
Department of Physics, GC University, Lahore. | August 2003 to
December 2013 |
| 6. | Lecturer in Physics
Teaching Physics at Graduate and Postgraduate levels
Punjab Education Department, Govt. of the Punjab, Lahore. | September 1997 –
August 2003 |
| 7. | Visiting Teacher
Teaching Physics at O & A-Levels
Sharif Educational Complex, Lahore | September 1998 –
September 2001 |
| 8. | Subject Specialist (Physics)
Teaching Physics at O-Level
Garrison Academy for Boys, Lahore Cantt., Lahore. | September 1995 –
September 1997 |

Research Experience

- | | | |
|---|--|---------------------------------|
| 1 | Professor of Physics (Tenured). | October 2018 to date |
| 2 | Associate Professor of Physics (Tenured). | December 2013 to October 2018 |
| 3 | Assistant Professor of Physics under Tenure Track System. | August 2003 to December 2013 |
| 4 | Post Doctorate, Space Science Institute, Beihang University, Beijing, China. | 2012-2013 |
| 5 | PhD Scholar at the Chinese Academy of Sciences, Beijing-China. Title of dissertation "Theoretical Study on the Nonlinear Waves in Space Plasmas". | September 2004 – August 2007 |
| 6 | Research Scholar at the Institute of Interplanetary Space Physics, CNR-Rome, Italy, under the one-year scholarship for post-graduate research studies by the Government of Italy from 1st October 2001 to 30th September 2002. | October 2001 – September 2002 |
| 7 | Master of Philosophy in Physics from the Centre for Solid State Physics, University of the Punjab, Lahore. Title of dissertation "Parallel Propagating Waves In A Hot Plasma With an Ellipsian Distribution Function". | September 2001 – September 2002 |

Distinctions

1. University Best Teacher Award by Higher Education Commission (HEC) Pakistan, 2015.
2. Higher Education Commission (HEC) Pakistan, Research Productivity Award, 2012.
3. Higher Education Commission (HEC) Pakistan, Research Productivity Award, 2011.
4. Chinese Academy of Sciences President's Prize for Excellent Graduate Student, 2007.
5. First position in M.Phil., 2001.

Education

- | | | | |
|---|---|------------------------|---------------------------------|
| 1 | Space Science Institute, Beihang University, Beijing, China. | Postdoctoral | July 2013 |
| 2 | Centre for Space Science and Applied Research, Chinese Academy of Sciences, Beijing, China. | PhD | September 2004 – 01 July 2007 |
| 3 | Centre for Solid State Physics, University of the Punjab, Lahore. | M. Phil. | September 1999 – September 2001 |
| 4 | Islamia College, Civil Lines, Punjab University, Lahore. | M.Sc. (Physics) | 1992 |

5	Islamia College, Civil Lines, Punjab University, Lahore.	B.Sc. (Math-A, Math-B, Physics)	1990
6	Islamia College, Civil Lines, Punjab University, Lahore.	F.Sc. (Pre-Engineering)	1988
7	Central Model School, Lower Mall, Lahore.	Matriculation	1986

Courses Taught

1. Space Physics	Phd
2. Ionospheric Plasma	PhD
3. Nonlinear Physics	M. Phil.
4. Advanced Computational Physics	M. Phil.
5. Advanced Plasma Physics	M. Phil.
6. Plasma Physics	M. Phil and Graduate Levels
7. Computational Physics and Numerical Techniques	Graduate
8. Statistical Physics	Graduate
9. Classical Mechanics-I	Graduate
10. Classical Mechanics-II	Graduate
11. Electromagnetic Theory-I	Graduate
12. Electromagnetic Theory-II	Graduate

Projects

- Project Title:** Solitary Structures in Space Plasmas Using Observed Distributions.

Funding Agency: HEC, Pakistan.

Status: In Progress (June 2019 to May 2022)

Duration: 3 Year

Amount: Rs.2,094,460/= (2.094 M)
- Project Title:** EMEC Instability in the Presence of Parallel Electric Field in Auroral Region.

Funding Agency: GCU, Lahore, Pakistan.

Status: In Progress (August 2019 to July 2020)

Duration: 1 Year

Amount: Rs.150,000/=
- Project Title:** Observations of Electron/Ion Distribution Functions in Space Plasmas.

Funding Agency: GCU

Status: Completed (April 2017 to March 2018)
Duration: 1 Year
Amount: Rs.180,000/=

4. **Project Title:** Theoretical and Numerical Study of Different Electrostatic and Electromagnetic Modes with Two Temperature Non-Maxwellian Distribution Functions.

Funding Agency: The Higher Education Commission (HEC), Pakistan
Status: Completed (March 2012- March 2015)
Duration: 3 Years
Amount: Rs.20,44,488/=

5. **Project Title:** Nonlinear Landau Damping in Space Plasmas with Two Electron Temperature Non-Maxwellian Distribution Functions.

Funding Agency: Pakistan Science Foundation (PSF)
Status: Completed (November 02, 2009 to May 01, 2012)
Duration: 2.5 Years
Amount: Rs.4,75,320/=

6. **Project Title:** Strengthening of Computer Laboratory at Physics Department GCU, Lahore.

Funding Agency: The Higher Education Commission (HEC), Pakistan
Status: Finished (May, 2011)
Amount: Rs.6,54,329/=

As Co-Principal Investigator

1. **Project Title:** Nonlinearities in Degenerate Quantum Plasmas
Funding Agency: The Higher Education Commission (HEC), Pakistan
Status: Completed (March, 2014 to May, 2019)
Amount: Rs.40,01,664/=

2. **Project Title:** Parallel and Perpendicular Propagating Waves in and the Corresponding Temporal/Spatial Damping/Instability in Maxwellian and Non-Maxwellian Plasmas

Funding Agency: GCU
Status: Completed (April 2018 to March 2018)
Amount: Rs.130,000/=

Students Supervised

PhD Students

PhD Students Supervised

1. Sundas Saeed, “Micro-Instabilities in Space Plasmas”, Registration No. 2013-PHD-PHY-36, vide notification no. 3239/C.E dated 04-12-2017.
2. Sumbul Sehar, “Linear and Nonlinear Landau Damping with Non-Maxwellian Distribution Function”, Registration No. 014-GCU-PhD-PHY-2011, vide notification no. 704-C/E dated 06-03-2019.
3. Saba Khalid, “Solitary Structures in Space Plasmas with Non-Maxwellian Electron Distributions”, Registration No. 2013-PhD-PHY-07.
4. Shahnaz Kousar, “Effect of Nonthermal Electrons on Electrostatic Nonlinear Waves in Multi-Component Plasmas”, Registration No. 2016-GCUL-PhD-PHY-21.
5. Mudassar Nazeer, “EMEC Waves in Kappa-Maxwellian Distributed Space Plasmas”, Registration No. 2018-GCUL-PHD-PHY-37.
6. Hafiz Zeeshan Iqbal, “Chaotic Evolution of Plasma Instabilities”, Registration No. 2018-GCUL-PHD-PHY-27.

PhD Students Co-Supervised

1. Ms. Sehrish Saleem, “Deposition of Biocompatible Thin Films using Glow Discharge”, Registration No. 079-GCU-PHD-PHY-2009, vide notification no. 2986/C.Exam dated 7-2-2016.
2. Warda Nasir, “Kinetic Aspects in Space and Astrophysical Plasmas”, Roll No. 16-52005, FCC (A Chartered University, Lahore).
3. Khalid Hussain Shah, “Nonlinear phenomenon in Plasmas with Generalized (r,q) Distribution”, Roll No. 16-52001, FCC (A Chartered University, Lahore).
4. Amna Fayyaz, “Influence of Nonlinearity in Quantum Plasmas and Plasma like Media”, Registration No. 2016-GCUL-PhD-PHY-87, vide notification no. 7889/C.E dated 10-12-2021

PhD Students Under Supervision

1. Muhammad Awais Bhatti
2. Syed Ahmad Muzammil Zaidi
3. Syed Talha Rizwan
4. Navaira Izhar
5. Samia Ajmal

M. Phil. Students

M. Phil. Students Supervised

1. Sumbul Sehar, Session 2007-2009, “Langmuir Waves with Two Temperature Non-Maxwellian (r, q) Distribution”.
2. Nouman Amjad, Session 2007-2009, “Evaluation of production data of positron emitter”. Muhammad Akhlaq Feroz, Session 2020-2022, “Effect of kinematic viscosity on the dust ion-acoustic solitary waves in dusty plasmas”.
3. Aatiqa Fayaz, Session 2008-2010, “Numerical Solution of NLPDEs in 1D and 2D in Plasma”.
4. Muhammad Rizwan, Session 2008-2010, “Bipolar electric field solitary structure in magnetosphere with arbitrary electron equation of state”.
5. Waqar Ahmad, Session 2008-2010, “Bipolar Electric Field Solitary Structures in Magnetosphere with Drifting Effect of Electrons”.
6. Sundas Saeed, Session 2009-2011, “Alfven Waves in Anisotropic Plasmas with (r, q) Distribution Function”.
7. Warda Nasir, Session 2009-2011, “Whistler Waves with Electron Temperature Anisotropy in Non-Maxwellian Plasmas”.
8. Maryam Rehman, Session 2010-2012, “MHD Model of a 2-D Current Sheet”.
9. Shahnaz Kausar, Session 2010-2012, “Zakharov-Kuznetsov Equation for Ion-acoustic Waves in Multicomponent Plasma”.
10. Khalid Shah, Session 2011-2013, “Solitary Structures in Plasmas in the Presence of Two Electron Species”.
11. Mahwish Saeed Awan, Session 2011-2013, “Solitary structures in plasmas with streaming electrons”.
12. Madeeha Masood, Session 2012-2014, “Proton Firehose instability in space plasmas”.
13. Rabia, Session 2012-2014, “Electrostatic modes in Plasmas based on Non-Extensive Statistics”.
14. Shahzad Akhtar, Session 2013-15, “Effect of parallel electric field on electron cyclotron waves in space plasmas”.
15. Ahmad Wasif, Session 2013-15, “Superadiant instabilities and the Kerr Black Hole mirror bomb”.
16. Hafiz Ahmad Awan, Session 2013-15, “Black Hole quasi normal ringing and dynamical relation times”.
17. Mudassar Nazir, Session 2013-2015, “Electron cyclotron waves with perpendicular electron beam”.
18. Navaira Izhar, Session 2013-2015, “Electromagnetic waves propagating perpendicular to the magnetic field in non-Maxwellian plasmas”.
19. Amna Fayyaz, Session 2013-2015, “Electron plasma waves in quantum plasmas”.
20. Isra Islam, Session 2013-2015, “Electron firehose instability using Maxwellian and Non-Maxwellian distribution functions”.

21. Muhammad Tariq, Session 2013-2015, "Fully nonlinear ion-acoustic waves in quantum plasmas".
22. Muhammad Awais Bhatti, Session 2014-16, "Nonlinear kinetic Alfvén waves with non-Maxwellian electrons".
23. Rashida Saeed, Session 2014-16, "Ion-acoustic instability in permeating space plasmas".
24. Javed Iqbal, Session 2014-16, "Ion-acoustic shock waves in space plasmas".
25. Muhammad Asghar, Session 2014-2016, "Electromagnetic scattering from a plasma coated perfect electromagnetic conductor".
26. Nida Akram, Session 2014-2016, "Solitary ion-acoustic waves in degenerate magnetoplasmas with trapped electrons".
27. Syed Ahmad Muzammil Zaidi, Session 2016-2018, "Obliquely propagating EMEC waves with non-Maxwellian distributions in space plasmas".
28. Abdul Qadeer, Session 2016-2018, "Oblique electromagnetic electron cyclotron waves with relativistic effects".
29. Syed Talha Rizwan, Session 2017-2019, "EMIC waves with beam effects in non-Maxwellian space plasmas".
30. Waqar Azeem, Session 2018-2020, "Nonlinear ion-acoustic waves in non-Maxwellian ion beam plasma".
31. Rizwan Farooq, Session 2018-2020, "Obliquely propagating nonlinear ion-acoustic waves in non-Maxwellian magnetized plasma".
32. Rizwan Butt, Session 2018-2020, "Acoustic modes with dust charge fluctuations".
33. Sania Naeem, Session 2019-2021, "Nonlinear Inertial Alfvén Waves in Multi-Component Space Plasmas".
34. Hajra Naz Cheema, Session 2019-2021, "KdV-Burger's Equation in Multicomponent Non-Maxwellian Space Plasmas".
35. Mah Gul, Session 2019-2021, "Nonlinear Magnetosonic Waves in Dissipative Space Plasmas".
36. Samia Ijaz, Session 2019-2021, "Nonlinear Kinetic Alfvén Waves in Low- β Multi-Component Space Plasmas".
37. Muhammad Akhlaq Feroz, Session 2020-2022, "Effect of kinematic viscosity on the dust ion-acoustic solitary waves in dusty plasmas".
38. Ahmar Manzoor, Session 2021-2023, "KP, Modified KP and Coupled KP equations for dust ion-acoustic wave in kappa distributed plasma".
39. Ayesha Shabbir, Session 2021-2023, "Obliquely propagating linear and nonlinear magnetosonic waves in electron-positron-ion plasma".
40. Fatima Shahjahan Khan, Session 2021-2023, "KP, Modified KP and Coupled KP equations for dust ion-acoustic wave in Cairns distributed plasma".
41. Iftikhar Ahmed, Session 2021-2023, "Obliquely propagating electromagnetic ion cyclotron waves using kappa-Maxwellian distribution in space plasmas".
42. Samia Ajmal, Session 2021-2023, "Parallel propagating electromagnetic ion cyclotron waves using kappa-Maxwellian distribution in space plasma".

43. Anum Munir, Session 2022-2024, "Extended Zakharov-Kuznestov equation for ion-acoustic waves in (r,q) distributed plasma".
44. Sara Mirza, Session 2022-2024, "Dispersion and growth rate of electromagnetic ion cyclotron waves using bi-Maxwellian distribution in the presence of hot ion beam".

M. Phil. Students Under Supervision

1. Ghulam Abbas, Session 2023-2025.
2. Nadia Arshad, Session 2023-2025.
3. Badar Munir, Session 2023-2025.
4. Zeeshan, Session 2022-2024.

Undergraduate Students

Undergraduate Students Supervised

1. Anam Naeem, Session 2005-2009, "Energy Coupling Between Solar Wind and Magnetosphere".
2. Anum Javaid, Session 2005-2009, "Solution of Linearly Resolvable Electric Circuits Through Numerical Techniques".
3. Asma Kamil, Session 2005-2009, "Simulation of Charged Particles in Spatially Varying Magnetic Field".
4. Imama Tahir, Session 2005-2009, "Simulation of Charged Particle in Different Electric and Magnetic Field Topologies".
5. Shumaila Wattoo, Session 2005-2009
6. Nabia Naeem, Session 2005-2009, "Simulation of Charged Particles in Crossed Electric and Magnetic Fields".
7. Mahwish Saeed, Session 2006-2010, "Conductivity of Earth's Ionosphere".
8. Saba Javaid, Session 2006-2010, "Landau damping in space and laboratory plasma".
9. Muhammad Yahya, Session 2006-2010, "Numerical Solutions of Partial Differential Equations".
10. Anum Nasim, Session 2007-2011, "Magnetic Substorms".
11. Madeeha Zahra, Session 2007-2011, "Magnetic Storms In Magnetosphere".
12. Sumaira Javaid, Session 2007-2011, "Magnetic Reconnection In Magnetosphere".
13. Fatima Khan, Session 2008-2012, "Observation of Alfvén Waves In Magnetosphere".
14. Fatima Aslam, Session 2008-2012, "Applications of nonlinear Landau damping in plasmas".
15. Rabia Moeen, Session 2008-2012, "Non-Extensive Statistics".
16. Rashida Saeed, Session 2009-2013 "Existence of Alfvén waves around the Terrestrial Bow Shock".

17. Isra Islam Khan, Session 2009-2013 “Electron Firehose instability in magnetosheath”.
18. Hira Khan, Session 2009-2013 “Ion-acoustic waves with kappa distribution function in two ion plasma”
19. Ammal Javaid Session 2009-2013 “Theoretical Investigations of Electron firehose instability”.
20. Arooj Rafique, Session 2009-2013 “Investigation of Alfven waves in different regions of magnetosphere”.
21. Muhammad Awais Bhatti, Session 2009-2013 “Theoretical investigations of Ion-acoustic waves based on non-extensive statistics”.
22. Hafiz Asif Mahmood, Session 2009-2013, “Two stream instability using fluid model”.
23. Zia Ur Rehman, Session 2009-2013, “Fully nonlinear ion-acoustic waves in cold plasmas”.
24. Sarmad Saeed, Session 2010-2014, “Fully nonlinear electron plasma waves in cold plasmas”.
25. Syed Muhammad Muzzamil Zaidi, Session 2011-2015, “Evolution of distribution functions across bow shock”.
26. Muhammad Hassan Shahid, Session 2012-2016, “Oscillations and waves in sun spots”.
27. Nouman Mustafa Kiyani, Session 2012-2016, “Solar coronal plumes”.
28. Muhammad Shahbaz, Session 2012-2016, “Variation of sunspots during a solar cycle”.
29. Muhammad Waqas, Session 2012-2016, “Solar magnetism in the polar regions”.
30. Annam Safdar, Session 2013-2017, “A History of Solar Activity Over Millennia”.
31. Hamna Farhat, Session 2013-2017, “Modelling of Stars”.
32. Hira Ahmad, Session 2013-2017, “Schwartzchild Black Holes”.
33. Rahat Ul Ain, Session 2013-2017, “Kerr Black Holes”.
34. Zulekha Fayyaz, Session 2013-2017, “Earth’s Magnetic Reversal”.
35. Munim Sarwar, Session 2013-2017, “Dynamics of River Tides”.
36. Jamshaid Javed, Session 2013-2017, “Monte Carlo Method to Study Molecule Formation in Plasmas”.
37. Sajid Ur Rehman, Session 2014-2018, “Observations of solar prominences”.
38. Sania Naeem, Session 2014-2018, “Quest of dark matter: History and latest findings”.
39. Shah Nawaz, Session 2014-2018, “Why the Sun’s atmosphere is hotter than its surface”.
40. Muhammad Wase Ul Hassan, Session 2014-2018, “Observations and modelling of coronal loops”.
41. Mariam, Session 2015-2019, “Electron precipitation mechanism in Earth’s auroral region”.

42. Mah Gul, Session 2015-2019, "Energy transfer from solar wind to radiation belts".
43. Hajra Naz Cheema, Session 2015-2019, "Magnetic reconnection at Earth's dayside magnetopause".
44. Noor Amjad, Session 2015-2019, "Multi-space craft observations of electron phase space holes".
45. Samia Ijaz, Session 2015-2019, "Statistical study on the occurrence of irregularities in ionosphere E and F-regions".
46. Nooria, Session 2016-2020, "Detection of natural hazards on the basis of ionospheric perturbations".
47. Nayyab Gohar, Session 2016-2020, "Predicting the rate of fast radio bursts in the local Universe".
48. Muhammad Suleman Farooq, Session 2018-2022, "Electromagnetic Ion Cyclotron Waves: Magnetospheric Multiscale (MMS) Observations".
49. Muhammad Ibrar, Session 2018-2022, "Ion Dynamics Associated with the Whistler Waves: Magnetospheric Multiscale (MMS) Observations".
50. Ahmar Arshad, Session 2018-2022, "Whistler Waves at the Magnetopause: Magnetospheric Multiscale (MMS) Observations".
51. Nadia Arshad, Session 2019-2023, "Observations of electron velocity distributions around the Earth's bow shock".
52. Iqra Aslam, Session 2019-2-23, "Observations of ion velocity distributions in the Earth's magnetosphere".
53. Hamza Ali, Session 2019-2-23, "Observations of ion velocity distributions in the solar wind".
54. Kashaf Waseem, Session 2019-2023, "Properties of solar wind plasma parameters: A statistical study".
55. Khadija, Session 2019-2023, "Effects of solar wind and cosmic rays on the global climate change".
56. Somana Ali, Session 2019-2023, "Effect of solar wind on the magnetospheric ring current".
57. Ambar Tariq, Session 2020-2024, "Observations of electron holes in Earth's magnetosphere".
58. Bushra Irfan, Session 2020-2024, "CLUSTER observations of quasi-perpendicular terrestrial bow shock".
59. Fiza Farooq, Session 2020-2024, "MMS observations of electromagnetic ion cyclotron waves".
60. Laiba Eman, Session 2020-2024, "Observations of whistler waves in Earth's magnetosphere".
61. Rabia Naz, Session 2020-2024, "CLUSTER observations of quasi-parallel terrestrial bow shock".
62. Talha Shehzad, Session 2020-2024, "MMS observations of electrons Bernstein waves".
63. Rimsha Touqeer, Session 2021-2025, "Design and construction of a small footprint potentiostat".

Publications in Refereed Journals

1. **Qureshi M. N. S.**, H. A. Shah, G. Murtaza, S. J. Schwartz, F. Mahmood, Parallel Propagating Electromagnetic Modes with Generalized (r,q) Distribution Function, *Phys. Plasmas*, **11**, 3819-3829, 2004. <http://dx.doi.org/10.1063/1.1688329>
2. **Qureshi M. N. S.**, J. K. Shi, S. Z. Ma, Landau damping in space plasmas with generalized (r,q) distribution function, *Phys. Plasmas*, **12**, 1229021-1229026, 2005. <http://dx.doi.org/10.1063/1.2139504>
3. **Qureshi M. N. S.**, J. K. Shi, S. Z. Ma, Influence of generalized (r,q) distribution function on electrostatic waves; *Commun. Theor. Phys.*, **45**, 550-554, 2006. Doi: 10.1088/0253-6102/45/3/034
4. Kiran Z., H. A. Shah, **M. N. S. Qureshi**, G. Murtaza, Parallel proton heating in solar wind using generalized (r,q) distribution function, *Solar Physics*, **236**, 167-182, 2006. DOI: 10.1007/s11207-006-0053-1
5. Shi J. K., **M. N. S. Qureshi**, S. Z. Ma, L. D. Xia, J. S. Wang, The energy release of substorm and magnetic storm: Its present state and future improvements by KuaFu mission, *Adv. in Space Res.*, **40**, 1842-1851, 2007. doi:10.1016/j.asr.2007.02.024
6. Shi Jian-Kui, **M. N. S. Qureshi**, Klaus Torkar, Malcolm Dunlop, Zhen-Xing Liu, T. L. Zhang, An interpretation for the bipolar electric field structures parallel to the magnetic field observed in the auroral ionosphere, *Ann. Geophys.*, **26**, 1431-1437, 2008. doi:10.5194/angeo-26-1431-2008
7. **Qureshi M. N. S.**, Jian-Kui Shi, Zhen-Xing Liu, A model for periodic nonlinear electric field structures in space plasmas, *Commun. Theor. Phys.*, **52**, 149-154, 2009. Doi: 10.1088/0253-6102/52/1/32
8. **Qureshi M. N. S.**, Jian-Kui Shi, Klaus Torkar, Zhen-Xing Liu, Properties of offset bipolar electric field solitary structures in space plasmas, *Adv. Space Res.*, **45**, 1219-1223, 2010. doi:10.1016/j.asr.2010.01.019
9. Shah H. A., **M. N. S. Qureshi**, N. Tsintsadze, Effect of trapping in degenerate quantum plasmas, *Phys. Plasmas*, **17**, 032312, 2010. doi: 10.1063/1.3368831
10. Massod W., H. A. Shah, N. L. Tsintsadze, **M. N. S. Qureshi**, Dust Alfvén ordinary and cusp solitons and modulational instability in a self-gravitating magneto-radiative plasma, *Eur. Phys. J. D.*, **59**, 413-419, 2010. doi: 10.1140/epjd/e2010-00180-x
11. **Qureshi M. N. S.**, Shi Jiankui, K. Torkar Liu Zhenxing, Clarification on polarity of bipolar electric field solitary structures in space plasmas with satellite observations, *Chin. Phys. Lett.*, **28**, 025204, 2011. doi: 10.1088/0256-307X/28/2/025204
12. Ayub M., H. A. Shah, **M. N. S. Qureshi**, Trapping effects in a self gravitating quantum dusty plasmas; *Phys. Scripta*, **84**, 045505, 2011. doi: 10.1088/0031-8949/84/04/045505
13. Shah H. A., W. Masood, **M. N. S. Qureshi**, N. L. Tsintsadze, Effect of trapping and finite temperature in a relativistic degenerate quantum plasma, *Phys. Plasmas*, **18**, 102306, 2011. doi: 10.1063/1.3646403
14. **Qureshi M. N. S.**, Shi Jiankui, H. A. Shah, Electrostatic Solitary Waves, *J. Fusion Energy*, **31**, 112-117, 2012. doi: 10.1007/s10894-011-9439-7

15. **Qureshi M. N. S.**, J. K. Shi, H. A. Shah, Cusp and regular ion-acoustic solitons, *Braz. J. Phys.*, **42**, 48-54, 2012. doi: 10.1007/s13538-011-0050-1
16. Shah H. A., M. J. Iqbal, N. L. Tsintsadze, W. Masood, **M. N. S. Qureshi**, Effect of trapping in a degenerate plasma in the presence of a quantizing magnetic field, *Phys. Plasmas*, **19**, 092304, 2012. doi: 10.1063/1.4752416
17. **Qureshi M. N. S.**, J. K. Shi, Z. W. Cheng, Z. X. Liu, An interpretation of density holes observed by Cluster and Double Star in solar wind, *Chin. Sci. Bull.*, **57**, 1405-1408, 2012. Doi: 10.1007/s11434-011-4913-1
18. **Qureshi M. N. S.**, S. Sehar, H. A. Shah, J. B. Cao, Effect on Landau damping rates for non-Maxwellian distribution function consisting of two electron temperature, *Chin. Phys. B*, **22**, 035201, 2013. doi: 10.1088/1674-1056/22/3/03
19. **Qureshi M. N. S.**, Sundas Saeed, H. A. Shah, Alfven wave instability based on temperature anisotropy with non-Maxwellian distribution function, *Problems of Atomic Science and Technology (BAHT)*, **83**, 102, 2013.
20. Ayub M., H. A. Shah, **M. N. S. Qureshi**, M. Salim-u-llah, Dust-Lower-Hybrid surface waves in classical and degenerate plasmas; *Comm. Theor. Phys.*, **60**, 623-629, 2013. Doi:10.1088/0253-6102/60/5/19
21. **Qureshi M. N. S.**, S. Sehar, J. K. Shi, H. A. Shah, Nonlinear Landau damping of high frequency waves in non-Maxwellian plasmas, *Chin. Phys. B*, **22**, 115201, 2013. Doi: 10.1088/1674-1056/22/11/115201
22. H. A. Shah, W. Masood, M. T. Asim and **M. N. S. Qureshi**, Drift solitary structures in inhomogeneous degenerate quantum plasmas with trapped electrons, *Astrophys. Space Sci.*, **350**, 615-622, 2014. doi: 10.1007/s10509-014-1802-5
23. S. Arshad, H. A. Shah and **M. N. S. Qureshi**, Effect of adiabatic trapping on vortices and solitons in degenerate plasma in the presence of a quantizing magnetic field, *Physica Scripta*, **89**, 075602, 2014. doi: 10.1088/0031-8949/89/7/075602
24. **M. N. S. Qureshi**, Warda Nasir, W. Masood, P. H. Yoon, H. A. Shah and S. J. Schwartz, Terrestrial lion roars and non-Maxwellian distribution, *J. Geophys. Res.*, **119**, 10059-10067, 2014. doi:10.1002/2014JA020476
25. S. Arshad, H. A. Shah, W. Masood and **M. N. S. Qureshi**, Finite amplitude solitary structures of coupled kinetic Alfven-acoustic waves in dense plasmas, *Astrophys. Space Sci.*, **355**, 225-232, 2015. DOI: 10.1007/s10509-014-2169-3
26. W. Massod, **M. N. S. Qureshi**, P. H. Yoon, H. A. Shah, Nonlinear kinetic Alfven waves with non-Maxwellian electron population in space plasmas, *J. Geophys. Res.*, **120**, 101-112, 2015. doi:10.1002/2014JA020459
27. N. L. Tsintsadze, H. A. Shah, **M. N. S. Qureshi**, M. N. Tagviashvili, Properties of solitary ion acoustic waves in a magnetized degenerate magnetoplasma with trapped electrons, *Phys. Plasmas*, **22**, 022303, 2015. doi:10.1063/1.4907222
28. M. A. Rehman, H. A. Shah, W. Masood and **M. N. S. Qureshi**, Alfven solitary waves in nonrelativistic, relativistic, and ultra-relativistic degenerate quantum plasma, *Phys. Plasmas*, **22**, 102301, 2015. <http://dx.doi.org/10.1063/1.4932072>
29. Tahir Aziz, W. Masood and **M. N. S. Qureshi**, H. A. Shah and P. H. Yoon, Linear and nonlinear coupling of electromagnetic and electrostatic fluctuations with one

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Presentations as an Invited Speaker in National and International Conferences

1. Autumn College on Plasma Physics, 8th October – 3rd November, Trieste, Italy, 2001.
2. Solar Wind-10, 17th – 21st June, Pisa, Italy, 2002.
3. 11th Regional Conference on Mathematical Physics And Physics Spring Conference, May 3 – 6, IPM Tehran, Iran, 2004.
4. The 4th Workshop on Nonlinear Plasma Sciences, 29th August – 3rd September, Hangzhou, China, 2005.
5. COSPAR, 16th – 21st July, Beijing, China, 2006.
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8. 4th International Workshop and Summer School on Plasma Physics, 5th July to 10th July, Kiten, Bulgaria 2010.
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