

BIO-DATA



1. Full Name : Dr. Bhagvat Keshavrao Kumthekar
2. Date of birth : July 14, 1983
3. Sex ; Marital Status : Male ; Married
4. Designation : Head & Assistant Professor
Research Guide, SPS, SRTM University, Nanded

5. Permanent Address : At Post Kumtha [Khurd], Tal. Udgir,
Dist. Latur. 413 517 (INDIA)
Mobile No. (+91) 9421451055
E-mail : bkumthekar@gmail.com,

6. Address for Correspondence: Department of Physics,
Nutan Mahavidyalaya, Sailu,
Dist: Parbhani, 431503 (India)

7. Academic Qualification:

Class	Board/ University	Year of Passing	Subject offered	Percentage Of marks	Division
S.S.C.	Latur Board, Latur	1999	Marathi,Hindi,English,Maths, Science, Social Science	62.00 %	First
H.S.C.	Latur Board, Latur	2001	Physics, Maths, Chemistry, Biology, English, Hindi	56.33 %	Second
B. Sc.	S.R.T.M. University, Nanded	2004	Physics, Computer Science, Electronics	69.19 %	First with distinction
M.Sc.	S.R.T.M. University, Nanded	2006	Physics (Electronics and Astrophysics)	74.54	First
Ph.D.	S.R.T.M. University, Nanded	2012	Physics		

8. Research/Teaching experience:

- (i) Worked as **Junior Research Fellow** on project entitled 'Radiative Transition Probabilities and Anomalous Absorption by Molecules in Cool Cosmic Objects' (Sanction No. SR/S2/HEP-17/2003) funded by DST, New Delhi from 27 December 2007 to 30 September 2009.
- (ii) Worked as **Assistant Professor on Clock Hour Basis** in Department of Physics, Nutan Mahavidhyalaya, Sailu Dist. Parbhani from 2 August 2010 to 31 July 2013.
- (iii) Working as **Assistant Professor** in Department of Physics, Nutan Mahavidhyalaya, Sailu, Dist. Parbhani from 1 August 2013 to till date.
- (iv) Working as a **Head, Department of Physics**, Nutan Mahavidhyalaya, Sailu, Dist. Parbhani from 21 July 2016 to till date.
- (V) Working as a **Research Guide** at School of Physical Sciences, S. R. T. M. University, Nanded from December 2022

Orientation / Refreshers/ Short term Courses:

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
92 nd Orientation course	UGC- ASC, Rani Durgawati University, JabalPur, MP	14 Oct 2014 to 08 Nov 2014	U.G.C., New Delhi
4 th Winter School	HRDC- Punjabi University, Patiala, Punjab	01 Dec 2016 to 21 Dec 2016	U.G.C., New Delhi
Online Refresher Course	HRDC-GGV Bilaspur	08/03/2021 to 20/03/2021	U.G.C., New Delhi
Online Refresher Course in Physical Sciences	HRDC-Punjab University Chandigarh	15/02/2022 to 28/02/2022	U.G.C., New Delhi

1. I have Participated in online course “**Physics of Semiconductors**” organized by Centre for Development of Technical Education, **IIT, Kanpur** during 15 August 2017 to 20 Nov 2017.
2. I have participated in Online course Maharashtra State Development of Educators and Enhancement in Delivery (MS-DEED) Program for Maharashtra State Science and Mathematics Teachers from Higher Education Institutes to be held by PMMMNTT Centre of Excellence in Science and Mathematics Education (CoESME), at IISER Pune from 21 December 2021 to 23 December 2021.

9. Memberships

- (i) Life member of the Plasma Sciences Society of India (LM-820)

10. Achievements/ Awards:

- (a) I stood **First in the order of Merit List in SRTM University, Nanded** at M. Sc. Level.
- (b) I got **International Travel Support Scheme (ITS)** from **Department of Science & Technology, New Delhi, India** for attending International Conference held at China National Convention Center (CNCC), **Beijing, China** during August 20-31, 2012.
- (c) I got Funding from International Atomic Energy Agency (IAEA) for attending International Conference “**8th theory of plasma Instabilities**”, at Vienna International Center, **Vienna Austria** during June 12-14, 2017.

11. Question Paper Setting

1. Member of Board of Paper Setting Committee in the B. Sc. VI semester Paper entitled “Linear and Digital Integrated circuits XV(B)” for the academic year 2018-19.
2. Member of Board of Paper Setting Committee in the B. Sc. I semester Paper entitled “Mathematical Methods in Physics-II (New)” for the academic year 2022-23.

12. Research Publication:

1. Propagation of MHD waves in homogeneous plasma

Suresh Chandra, **B.K. Kumthekar**, G.M. Dak and M.K.Sharma: The Open Astronomy Journal **3**, 7 (2010).

Link: <https://benthamopen.com/ABSTRACT/TOAAJ-3-7>

2. Backward propagation of waves in solar plasma

Suresh Chandra, **B.K. Kumthekar** and G.M. Dak: Ind. J. Radio & Space Phys. **39**, 184 (2010) (Impact Factor: 0.07)

Link: <http://nopr.niscair.res.in/bitstream/123456789/10163/1/IJRSP%2039%284%29%20184-186.pdf>

3. Comparison of two results for heating of the solar corona through MHD waves.

Suresh Chandra, **B.K. Kumthekar** and G.M. Dak: Bulg. J. Phys. **37**, 247 (2010)

Link: http://bjp-bg.com/papers/bjp2010_4_247-254.pdf

4. Natural masers

B.K. Kumthekar, M.K. Sharma and Suresh Chandra: Meghnad Saha Memorial Symposium on Emerging Trends in Laser & Spectroscopy and Applications, held on 23-25 March 2009, at Allahabad University, Allahabad (Allied Publishers, Pvt. Ltd., New Delhi) Pg. No. 376 (2010)

5. Suggestion for the search of H₂CC in cool cosmic objects

Suresh Chandra, Amit Kumar, **B.K. Kumthekar** and M.K. Sharma: New Astronomy **16**, 152 (2011) (Impact Factor: 1.68)

Link: <https://www.sciencedirect.com/science/article/abs/pii/S1384107610000825>

6. Intermediate Magnetoacoustic Waves

Suresh Chandra, **B.K. Kumthekar** and Amit Kumar: Romanian Astrophysical Journal **21**,47 (2011)

Link: http://www.astro.ro/~roaj/21_1/10_Chandra-Kumthekar.pdf

7. The thoughts of Swami Vivekananda’s on Science.

V. B. Patare and **B. K. Kumthekar**: Proceedings in the National conference on ‘Relevance of Swami Vivekananda’s Thoughts in 21st Century’ organized by Nutan Mahavidyalaya, Sailu Dist Parbhani (2015) Pg No. 417-420 ISBN 978-93-83871-54-4

8. The importance of diffusivity and viscosity in increase the temperature of solar plasma.

Bhagvat K. Kumthekar: International Journal of Innovative Science, Engineering & Technology (IJSET), Vol. 4 Issue 6, June 2017 ISSN (Online) 2348 – 7968 | Impact Factor (2016) – 5.264

Link: http://ijset.com/vol4/v4s6/IJSET_V4_I06_34.pdf

9. Review on development in semiconductors in electronics

A. V. Sutrave and **Bhagvat K. Kumthekar** International Journal of VLSI Design and Technology (IJVDT), vol:4, Issue 2 , 2018.

Link:

10. Development of Special Functions in Mathematical Physics

Bhagvat K. Kumthekar and Vijay B. Patare, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) Vol. 7, Issue 2, February 2018.

LINK : http://www.ijirset.com/upload/2018/february/107_Development_NC.pdf

11. Variation of damping length and wavelength in North Polar Coronal Holes of solar atmosphere

Bhagvat K. Kumthekar: International Journal of review of research, Vol. 1 Issue 2, March 2019

ISSN 2249 – 894X

Link: http://semconf.lbp.world/Publisher/ArticlesUploaded/5621_1887.pdf

12. Comparative Study Of FORTRAN And MATLAB Programming For Newton- Raphson Method

Bhagvat K. Kumthekar and Vijay B. Patare, International Journal of Creative Research Thoughts (IJCRT) Volume 8, Issue 4 April 2020 | ISSN: 2320-2882

Link: <https://ijcrt.org/papers/IJCRT2004627.pdf>

13. Conferences/Workshops Participated

International:

1. Poster presented on “On controversy of dispersion relation” in IAEA International workshop on Challenges in Plasma Spectroscopy for Future Fusion Research Machines held at B.M. Birla Auditorium, Jaipur during February 20-22, 2008.
2. Poster presented on “The study of effect of various parameters on Intermediate Waves” in IAU XXVIII General Assemble meeting held at China National Convention Center (CNCC), **Beijing, China** during August 20-31, 2012.
3. Poster presented on “The study of effect of various parameters on Intermediate Waves” in **International Symposium on Solar-Terrestrial Physics** held at IISER, Pune, **INDIA** during November 05-09, 2012.
4. I have attended **International Workshop on ‘Advanced Dynamical Core Modeling for Atmospheric and Oceanic Circulation’** held at National Atmospheric Research Laboratory (NARL), Gadanki, India during 18 – 23 February 2013.
5. Poster presented on ‘**The Role of Diffusivity and Viscosity in Solar Plasma**’ in 29th National Symposium on Plasma Science & Technology, **PLASMA- 2014 & International Conference on Plasma and Nanotechnology**, held at Department of Physics, M. G. University, Kottayam Kerala from December 08 - 11, 2014.

6. I have attended International Conference “8th theory of plasma Instabilities, held at Vienna International Center, Vienna Austria during June 12-14, 2017 for this I have received Funds from International Atomic Energy Agency (IAEA).
7. I have attended “International Workshop on LIGO India (IWLI-2019) held at S. R. T. M. University, Nanded (MS) during 15 & 16 December 2019.

National

8. Poster presented on “Propagation of MHD waves in homogeneous plasma” in 23rd National Symposium on Plasma Science & Technology, PLASMA- 2008, held at TSH, Bhabha Atomic Research Centre, Mumbai-400 085 from December 10 - 13, 2008.
9. Poster presented on “Investigation of diffusivity and viscosity in solar plasma” in XXVII Annual Meeting of Astronomical Society of India in February 18 – 20 2009 at Indian Institute of Astrophysics, Bangalore.
10. Poster presented on ‘Natural Maser’ in the Meghnad Saha Memorial Symposium held at Allahabad University, Allahabad during March 23-25, 2009.
11. Oral presentation on ‘Intermediate Magnetoacoustic Waves’ in 5th J&K State Science Congress held at University of Jammu, Jammu during February 8 - 10, 2010.
12. Poster presented on ‘Propagation of MHD Waves in solar plasma’ in the National Space Science Symposium 2010 (NSSS-2010) held at Department of Physics, Saurashtra University, Rajkot during February 24 - 27, 2010.
13. Oral presentation on ‘Backward Propagation of waves in Solar Plasma’ in Department of Physics, North Bengal University, Siliguri during January 27- 28, 2011.
14. Poster presentation on ‘The study of effect of various parameters on intermediate waves’ in the National Space Science Symposium 2012 (NSSS-2012), held at Department of Physics, S. V. University, Tirupati during February 14 - 17, 2012.
15. Paper presented on ‘The thoughts of Swami Vivekananda’s on Science’ in National Conference On ‘Relevance of Swami Vivekananda’s Thoughts in 21st Century’ at Nutan Mahavidyalaya, sailu Dist Parbhani during 30th - 31st January, 2015
16. I have attended Two days National Level Interdisciplinary seminar on **Human Rights** held at Matoshri Shantabai Gote Arts, comm. & science College Washim, Dist Washim during February 20-21, 2015
17. I have attended National Workshop on “Astronomy with Small Telescope” held at School of Physical Sciences, S.R.T.M. University, Nanded during December 8-11, 2015.

18. Poster presentation on 'The Role of Diffusivity and Viscosity in Solar plasma' in the National Space Science Symposium 2016 (NSSS-2016), held at Vikram Sarabhai Space Centre (VSSC) Thiruvananthapuram during February 09 - 12, 2016.
19. I have attended Three days workshop on **“New NAAC Accreditation Methodology For HEIs” organized by IQAC**, S.R.T.M. University, Nanded and RUSA held at S.R.T.M. University, Nanded during February 5-7, 2019.
20. Paper presented on **‘Variation of damping length and wavelength in North Polar Coronal Holes of solar atmosphere** in National Conference On **‘Recent advances in Nanotechnology - 2019 (NCRAN-19)’** at Toshniwal Arts Science & commerce college Sengaoon Dist Hingoli during March 05, 2019
21. I have attended one day workshop on **“Awareness for Autonomy of colleges & NIRF”** held at S.R.T.M. University, Nanded on February 29, 2020.
22. Paper presented on **“The importance of diffusivity and viscosity in increase the temperature of solar plasma”** in National e-Conference on **“Advances in Mathematics and Physics” (NCAMP-2021)** organized by Department of Mathematics & Physics, Shri Datta Arts, Commerce and Science College Hadgaon On Dated May 12, 2021.

State Level:

23. Raman conference for research students held at the S.R.T.M. University, Nanded on dated March 4, 2005.
24. Paper presented on “Investigation of diffusivity and viscosity in solar plasma” in Raman conference for research students held at the S.R.T.M. University, Nanded on March 4, 2008.
25. Participated in the program sponsored by the Indian Council of Philosophical Research, New Delhi and organized by the School of Philosophy & Culture at the SMVD University, Katra on 28 November 2009 on the theme ‘Interrelationship between Philosophy, Science and Culture’.
26. Participated in the workshop organized by the Nutan Mahavidyalaya, Sailu Dist: Parbhani on 04 March 2012 on the theme ‘A foundation course on Human Rights’.
27. Participated in the one day seminar on “Choice based Credit System” organized by Shri Shivaji College Parbhani Dist: Parbhani on dated 21 July 2017.
28. Participated in the one day Workshop on “B. Sc. Third year syllabus structure (CBCS Pattern) in Physics” organized by Department of Physics, Bahirji Smarak Mahavidyalaya Basmathnagar Dist Hingoli on dated 25 July 2018.

29. Participated in the one day online Workshop on “ Revised Curriculum (CBCS) of B. Sc. First Year – Physics” organized by Department of Physics, KKM Mahavidyalaya, Manwath Dist Parbhani on dated July 13, 2019.
30. Participated in the one day online Workshop on “ Revised Curriculum (CBCS) of B. Sc. Second Year – Physics” organized by Department of Physics, Yeshwant Mahavidyalaya, Nanded on dated January 27, 2021
31. Participated in the Three days Workshop on “ 3D Animation & graphics” organized by Department of Physics, Computer Science & Department of IQAC, NSB College Nanded during May 10-12 2021.
32. Participated in One day regional workshop on “Documenting SSR; an exercise in institute’s image building” organized by IQAC Cell KKM manwath and Late Nitin College Pathari on dated October 08, 2021

Administrative Work in various Positions

1. Worked as a **Presiding Officer** in General Election 2019 to the House of the People during 17-18/04/2019.
2. Worked as a **Presiding Officer** in General Election 2019 to the Legislative Assembly of Maharashtra State during 20-21/10/2019.
3. Worked as a **Zonal Officer** in Grampanchayat Election 2021 on dated 15/01/2021.
4. Worked as a **Election Counting Supervisor** in Grampanchayat Election 2021 on dated 18/01/2021