

## CURRICULUM – VITAE

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### Dr. Bhupendra Kumar Tiwari



1. Father's Name : Shri Y. K. Tiwari
2. Date of Birth : 05 -08-1970
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Permanent Address : S/O Shri Yougal Kishor Tiwari  
Near Govt.Boys School Bichhiya,  
Rewa (M.P.)-486001

5. Phone No : Mobile No. 9109536409, 9424981974
6. Qualifications : M.Sc. (Physics), Ph.D

S. No.	Examination/Degree	Subject	Year	Mark/Division/ %	Board/University
1	H.Sc (Maths)	Phy., Maths, Che. Gen. Hindi and Eng.	1986	476/800, II, 59.6	MP Board Bhopal
2	B.Sc(Maths)	Phy., Maths, Che. Foudation Course	1989	699/1200, II, 58.2	A.P.S.University Rewa (M.P.)
3	M.Sc(Physics)	Physics	1992	732/1200, I, 61	A.P.S.University Rewa
4	Ph.D	Space Physics Registration- 01/11/2007 Submission - 23/12/2010 Viva-voce-24/09/2011	2011	Notification No./Acad./Shodh/2 011/18.10.11 (Approval by Kulpati Ji- 05/10/2011)	A.P.S.University Rewa

5	Pre-Ph.D course work in accordance to U.G.C. regulation,2009	Space Physics	2013	148/200	A.P.S.University Rewa
6	B.Ed.	B.Ed. Subjects,and Science	1996	Th-465/700, I, 66.6 Pract.-300/400 I,75	A.P.S.University Rewa

### Teaching Experience -

S. No.	Name of Institute	Position Held	From	To	Total Experience
1	Rewa Institute of Technology,Rewa	Asst.Prof.	Sept.27, 2006	Aug.16, 2011	4years 9 Months
2	Jawahar Lal Nehru Institute of Technology,Rewa	Prof.&Head of Applied Sciences	Sept.01 2011.	June14, 2014	2 years 9 Months
3	A.P.S. University Rewa (M.P.)	Guest Faculty	July28,2014	Still Cont.	10 years 3 Months

**Total experience – 17 Years 09 Months**

### 8. Extra Curricular Activities

1. NSS state level certificate
2. NSS University level Certificate.

**Title of Ph.D. Thesis:** *“To study of Forbush Decrease in Cosmic ray Intensity and its relation with Geomagnetic field variation with reference to even and odd solar cycles”*

**Supervisor:** Prof. D. P. Tiwari, (Dean & Head),  
Deptt. of Physics, A.P.S. University Rewa (M.P.)

### 9. Member of Scientific Society

1. Life Member of Astronomical Society of India (ASI)L2186
2. Life Member of Vigyan Parishad (Mahakausal Prant)
3. Life Member of Bhartiya Shikshan Mandal (Mahakausal Prant)

**10. Member in Committee ( APS University)**

1. Proctorial Board
2. Incubation Centre
3. Convocation

**11. Serving in University as -**

1. Invigilator
2. Practical Examiner
3. Result cell
4. Valuation of Answer sheet
5. Paper setter
6. Admission committee of Department
7. Coding and Decoding Cell
8. Subject expert at MPCST Bhopal
9. Classes in Pre- Ph.D Course work and M.Phil Classes
10. NAAC/IQAC Preparation / Documentation
11. Scholarship of Students
12. Result Preparation
13. Youth Festival State Level( Inter University) 2014
14. Youth Festival ,2016
15. Convocation member of committee 8<sup>th</sup> ,9<sup>th</sup> ,10<sup>th</sup> ,11<sup>th</sup>
16. Result Cell as Co-Cordinator

**12. Awards**

**References:**

1. Prof. Shubha Tiwari, Vice-Chancellor, Maharaja Chhatrasal Bundelkhand University, Chhatarpur, Dist.Chhatarpur (M.P.) Email: [shubhatiwari0001@gmail.com](mailto:shubhatiwari0001@gmail.com), [prof.subha\\_tiwari@mcbu.ac.in](mailto:prof.subha_tiwari@mcbu.ac.in) Mobile No. 9425185320.
2. Prof. A. P. Mishra, Professor & Head, Dept. of Physics, APS University, Rewa (M.P.).Pin - 486002 , Email: [apm\\_apsu@yahoo.co.in](mailto:apm_apsu@yahoo.co.in), Mobile: 9826523689
3. Prof. D. P. Tiwari, Professor & Head, Dept. of Physics, APS University, Rewa (M.P.).Pin - 486002 , Email: [dptiwari\\_apsu@rediffmail.com](mailto:dptiwari_apsu@rediffmail.com), Mobile: 9424723910
4. Prof. P. K. Shrivastava, Professor & Head, Dept. of Physics, Govt.Model Science College, Rewa (M.P.).Pin -486001, Email: [pankaj\\_in\\_2001@rediffmail.com](mailto:pankaj_in_2001@rediffmail.com), Mobile: 9893328379
5. Prof.A.K.Saxena Department of Physics APS University Rewa M.P. Mobile : 7898621575,[drajaykumar15011960@gmail.com](mailto:drajaykumar15011960@gmail.com)
6. Er. Neeraj Nayan Awasthi, In front of Telephone Colony, H.No.-3/17/372, Arun Marg Near Pratop Marriage Garden, Nehru Nagar, Rewa (M.P.). Mobile: 9827005248.

**Your's Sincerely**

**(Bhupendra Kumar Tiwari)**

## **List of Publications**

- 1 Study of variation in cosmic ray intensity due to solar activity during solar cycle 23& 24. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup>, P.K.Shrivastava<sup>3</sup> and Chetna Tiwari<sup>4</sup>, **VJBS.Vol. 2(G), 45-47 (2014) ISSN 2348-1285**
- 2 Association of Forbush decrease with geomagnetic and solar activity during solar cycle 22- 23. **Bhupendra Kumar Tiwari** and D.P. Tiwari, **VJBS.Vol. 2(G), 17-18 (2014) ISSN 2348-1285**
- 3 Modulation in cosmic ray during the declining and minimum solar activity period of solar cycle 23. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup>, P.K.srivastava<sup>3</sup> and D.P. Tiwari<sup>4</sup> **International Science Congress Association, Res. Journal of Physical Sciences, 2(2), 9-12, 2014 ISSN 2320-4796 ,I.F.-1.56**
- 4 Study of variation in cosmic ray intensity due to solar-interplanetary activity between 1996- 2013. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup>, P.K.Shrivastava<sup>3</sup> and D.P. Tiwari<sup>4</sup> **International Science Congress Association, Res. Journal of Physical Sciences, 2(3), 4-8, 2014 ISSN 2320-4796, I.F.-1.56**
- 5 Dependence of the heliosphere and cosmic ray (CR) modulation on solar activity. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup>, P.K.Shrivastava<sup>3</sup> and D.P. Tiwari<sup>4</sup> **International Science Congress Association, Res. Journal of Physical Sciences, 2(5), 8-11, 2014 ISSN 2320-4796, I.F.-1.56**
- 6 Solar Interplanetary and Geomagnetic Activity in Solar Cycle 23 **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup> **International Journal for Scientific Research and Development, Vol. 2(7), 531-532, 2014 ISSN 2321-0613, I.F.-4.396**
- 7 Effect of Solar Variability on the Heliosphere and Cosmic Rays. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup> **International Journal for Scientific Research and Development, Vol. 2,( 7), 533-535, 2014 ISSN 2321-0613 , I.F.-4.396**
- 8 Effect of Solar- Interplanetary Parameters on Cosmic Ray Modulation. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup> **International Journal of Fundamental and Applied Research, Vol 2(6), 25-28, 2014 ISSN 2320-7973 , I.F.-1.335**
- 9 Heliosphere modulation of CRI due to solar activity. **B. K. Tiwari** **International Journal for Scientific Research and Development, Vol. 2,(7), 668-670, 2014 ISSN 2321-0613, I.F.-4.396**
- 10 Impact of Solar outputs on the Heliosphere and Cosmic Ray Modulation **B.K.Tiwari** **International Journal for Scientific Research and Development, Vol. 2, (8), 44-46, 2014 ISSN 2321-0613, I.F.-4.396**
- 11 Study of Solar Interplanetary and Geomagnetic Disturbances in Solar Cycle 23 **B.K.Tiwari** **International Journal for Scientific Research and development, Vol. 2,( 8), 53-55, 2014 ISSN 2321-0613 , I.F.-4.396**
- 12 Solar Variability and their impact on Heliosphere and Cosmic Rays. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup> **International Science Congress Association, Res. Journal of Physical Sciences, 2(6), 5-8, 2014 ISSN 2320-4796, I.F.-1.56**
- 13 Heliosphere and Cosmic Rays Modulation due to Solar Outputs. **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup> **International Journal for Innovative Research in Science & Technology 1(5), 20-22, 2014 ISSN 2349-6010 , I.F.-4.371**
- 14 Heliospheric modulation of CRI due to Solar-Interplanetary Causes **B. K. Tiwari<sup>1</sup>**, B.R.Ghormare<sup>2</sup>, P.K.Shrivastava<sup>3</sup> and D.P. Tiwari<sup>4</sup> **Parakh Interdisciplinary Res. Journal of Physical Sciences, 1(2), 6-8, May 2015 ISSN 2395-583X**

- 15 Solar modulation in Galactic Cosmic Ray during the declining and minimum phase of Solar cycle 23/24 **Bhupendra Kumar Tiwari** and Pankaj.K.Shrivastava **Parakh Interdisciplinary Res. Journal of Physical Sciences**, 1(2), 9-11, May 2015 ISSN 2395-583X
- 16 Solar Variability their impact on Cosmic ray modulation **B. K. Tiwari** and B.R.Ghormare **IJMRC Res. Journal of Physical Sciences**, 1(5), 40-43, 2015 ISSN 2454 -3861(E), ISSN 2454 -3659(P), I.F.-3.827
- 17 Cosmic rays modulation due to solar and interplanetary causes **B. K. Tiwari**<sup>1</sup>, B.R.Ghormare<sup>2</sup>, Chatna Tiwari<sup>3</sup> and P.K.Shrivastava<sup>4</sup> **Parakh Interdisciplinary Res. Journal of Physical Sciences**, 1(3), 32-35, 2015 ISSN 2395-583X
- 18 Solar Variability their impact on Cosmic ray modulation **B. K. Tiwari**<sup>1</sup>, B.R.Ghormare<sup>2</sup>, P.K.Shrivastava<sup>3</sup> and D.P. Tiwari<sup>4</sup> **Parakh Interdisciplinary Res. Journal of Physical Sciences**, 1(3), 38-41, 2015 ISSN 2395-583X
- 19 Galactic Cosmic rays modulation due to solar-interplanetary activity **B. K. Tiwari**<sup>1</sup>, B.R.Ghormare<sup>2</sup> **Research & Review: Journal of Physics** 4(3), 1-4, 2015, ISSN 2278-2265(online) , I.F.-6.058
- 20 Review of Reliability and Availability Evaluation of MPPGCL Sirmour hydropower station using Markov Modelling A.Singh **B. K. Tiwari**<sup>1</sup>, **Research & Review: Journal of Physics** 1(5), 30-37, 2015 ISSN 2278-2265 (online), I.F.-6.058
- 21 Cosmic rays modulation during declining and minimum phase of solar cycle 23 . **B.K.Tiwari**<sup>1</sup>, B.R.Ghormare<sup>2</sup> **Naveen Anveshan: Journal of the Multidisciplinary subjects** 2(5), 116-120, 2015, ISSN 2395-3497
- 22 Solar outputs their Impact on Cosmic rays modulation during solar cycle 23-24. **B. K. Tiwari**, **Naveen Anveshan: Journal of the Multidisciplinary subjects** 2(5), 142-146, 2015, ISSN 2395-3497
- 23 Modulation in Cosmic Rays due to Solar-Interplanetary Activity **B. K. Tiwari**<sup>1</sup>, B.R.Ghormare<sup>2</sup> **International Journal of the Multidisciplinary Res.**, 1(7), 99 - 102, Dec, 2015 ISSN;- 2454-3659 (P), 2454-3861(E), I.F.-0.4455
- 24 Heliospheric Modulation of Galactic cosmic rays during solar minimum of SC23/24. **B.K.Tiwari** , B.R.Ghormare **Research & Review Journal of Physics** Vol.6 Issue1 P.1-4 , 2017 ISSN- 2278-2265 online , I.F.-6.058
- 25 Solar activity indices and their impact on Heliosphere and GCR modulation. **B. K. Tiwari** **International Journal for Scientific Research and Development**, Vol. 2, (7), 671-672, 2014 ISSN 2321-0613 , I.F.-4.396
- 26 Modulation of Galactic cosmic rays during minimum Phase of Solar Cycle 23 and 24 **B.K.Tiwari** , B.R.Ghormare Vindhya Bharti Vol. 15 IssueII P., 74-76 , Dec 2017 ISSN-0976-9968
- 27 Solar variability and their impact on Heliospheric and Cosmic ray modulation during Solar Cycle 23/24. **B.K.Tiwari** Vindhya Bharti Vol. 16 IssueII P., 54-57, July 2018 ISSN-- 0976-9968
- 28 Solar - Interplanetary Impact on cosmic ray modulation and Geomagnetic activity during Solar cycle 23/24 **B.K.Tiwari** & Chetna Tiwari Vindhya Bharti Vol. 16 IssueII P., 58-61 ,July 2018 ISSN-- 0976-9968
- 29 Heliospheric Modulation in cosmic ray intensity due to solar- Interplanetary Causes. . **B.K.Tiwari** B.R. Ghormare & Chetna Tiwari Vindhya Bharti Vol. 16 Issue II P., 62-64 , July 2018 ISSN-- 0976-9968

- 30 Variation in GCRs with Solar Variability between 1996 to 2018 **B.K.Tiwari** , B.R.Ghormare IJCEP Journal of Physics Vol.4 Issue 2 P. 43-46, 2018,ISSN **2455-557 I.F.-1.706**
- 31 Heliospheric Modulation of cosmic ray intensity due to Solar- Interplanetary causes.Chetna Tiwari **B.K.Tiwari** & K.L. Jaiswal VJBS Vol. 14(G) P., 53-55 ,July 2019,ISSN **2348-1285**,
- 32 Modulation in CRI Due to Solar-Interplanetary Causes during 1996-2018. **B.K.Tiwari** B.R.Ghormare, Recent Trends in Electronics & Communication System (STM Journal ) Vol.7 Issue1, P21-25, 2020 ISSN **2393-8757**
- 33 Impact of Solar Variability on the Heliosphere and Cosmic Rays Modulation with Geomagnetic Activity **B.K.Tiwari** B.R.Ghormare, Recent Trends in Electronics & Communication System (STM Journal) Vol.7 Issue1, P32-35, 2020 ISSN **2393-8757**
- 34 Modulation in Cosmic Ray Due to Solar-Interplanetary during Solar Cycle 23 and 24. **B.K.Tiwari** Research Spectrum A Multi Faculty Rsearch Journal Vol.5(1) P105-107, 2022 ISSN **2395-1966**
- 35 Impact of Solar Variability on the Cosmic Rays Modulation with Geomagnetic Activity **B.K.Tiwari** Research Spectrum A Multi Faculty Rsearch Journal Vol.5(1) P121-123, 2022 ISSN **2395-1966**
- 36 Impact of Solar Variability on the Heliosphere and Cosmic Rays Modulation with Geomagnetic Activity **B.K.Tiwari** B.R.Ghormare, Recent Trends in Electronics & Communication System (STM Journal) Vol.7 Issue1, P32-35, 2020 ISSN **2393-8757**
- 37 Dependence of Galactic Cosmic Rays on Heliospheric Parameters **B.K.Tiwari** .B.R.Ghormare , International Journal of All Research Education and Scientifimethods (IJARESM) Mir Research Journal Vol.10(5) P 2335-2339, 2022 ISSN **2455-6211**
- 38 Impact of Solar Variability on Variation in Galactic Cosmic Rays (GCRs) Intensity and Geomagnetic Field **B.K.Tiwari** .B.R.Ghormare , NOVYI Mir Research Journal Vol.8(2) P 311-316, 2023 ISSN **0130-7673**
- 39 Study of Galactic Cosmic Rays in the Heliosphere during Solar cycle 23/24 **B.K.Tiwari**, Vindhya Bharti Multi-Disciplinary, Bilngual, Peer-Reviewed Research Journal No.-23, Vol. I, December 2023 P-123-126, ISSN **0976 - 9986**
- 40 Analysis of Galactic Cosmic Rays in the Heliosphere during Solar Cycles 23/24 **B.K.Tiwari** , B.R Ghormare NOVYI Mir Research Journal Vol.9(1) P 112-118, January 2023 ISSN **0130-7673**
- 41 Analysis of high energy charge particle in the Heliosphere **B.K.Tiwari** , B.R Ghormare International Research Journal of Engineering and Technology (IRJET) Vol. 11(2) P 66 - 71, February 2023 ISSN **2395 - 0056**

## **Book Chapter**

1. **Basic Principle of Laser Published in Recent Review and Research in Physics Vol.7 AkiNik Publications New Delhi Page 83-116**

## **Proceeding in Conferences**

- 1 Study of solar activity on galactic cosmic ray intensity between 2005-2010. Bhupendra Kumar Tiwari, **Proc. Solar Plasma Process & Cosmic Ray Modulation** , P115- 117, 2014 ISBN - 13:978-81-928063-5-8
- 2 Transient decreases in cosmic ray intensity with geomagnetic and interplanetary causes. Bhupendra kumar Tiwari and D.P.Tiwari **Proc. Solar Plasma Process & Cosmic Ray Modulation** , P55-57, 2014 ISBN -13:978-81-928063-5-8
- 3 Study of transient decreases in cosmic ray intensity during the period of 2005-2010. Bhupendra Kumar Tiwari and D.P. Tiwari , **Proc, 17th NSSS, P-233, (2012) ISSN 978-93-1899-0.4**
- 4 Modulation In Cosmic Ray During The Declining And Minimum Phase Of Solar Cycle 23. Bhupendra Kumar Tiwari **Proc. International Science Congress Association, and PCST, Res. Journal of Physical Sciences, P-95, 2014**
5. Periodic changes in Galactic Cosmic Rays with Solar- interplanetary causes in international conference (ICMSPSA2024), Organised by MPCST and APS university Rewa during 13-14, November ,2024 in Mathematical Sciences Department of A.P.S.University Rewa (M.P.) Page 176-183,2024. ISBN 978-93-94815-71-1

#### **List of Presentation in Symposium/Conferences/Workshop**

During the present investigation I (Bhupendra Kumar Tiwari) have attended the conferences, seminars, workshop and symposium, and presented the paper during the technical sessions. The list is given as follows:

##### **Symposium/Conferences**

1. Solar and interplanetary causes of cosmic ray storm and geomagnetic disturbances. **Bhupendra kumar Tiwari** and P.K. Pandey, Paper Presented in National level Seminar on Solar –Terrestrial Physics, held at A.P.S.U. Rewa (M.P.), during, Nov 30 -Dec.1, 2004.
2. Relation of the Forbush effect to interplanetary and geomagnetic disturbances. **Bhupendra Tiwari** Paper Presented in National level Seminar on interplanetary and Earth environment, held at Shahdol (M.P.), **Organized by UGC**, during, Jan. 28- 29, 2009.
3. Forbush decrease in cosmic ray intensity associated with intense geomagnetic storm. **Bhupendra Tiwari**,D.P. Tiwari and A.P.Mishra , Paper Presented in National level Seminar on Solar activity and cosmic ray modulation, held at Satna (M.P.), **Organized by UGC** during, Oct. 09- 10 , 2010
4. Characteristics features of Forbush decrease with respect to solar and interplanetary features.**B.Tiwari**, D.P. Tiwari and A.P.Mishra, Paper Presented in, National level Seminar on Effect of space weather on human environment and technological system, held at, Durg (C.G.), , during, Feb. 15- 16, 2010.
5. Study of transient decreases in cosmic ray intensity during the period of 2005-2010. **Bhupendra kumar Tiwari** and D.P. Tiwari paper presented in **17th National Space Science Symposium** ,held at S.V. University, Tirupati (A.P.), Organized by ISRO. During February, 14-17, 2012.

6. Cosmic ray modulation in the inner heliosphere during solar cycles 20 –23 **Bhupendra Kumar Tiwari** and D.P.Tiwari. National conference, Paper Presented at Govt.Model Science College Rewa M.P., **Organized by UGC**, during 9<sup>th</sup> -10<sup>th</sup> Feb, 2013.
7. Transient decreases in cosmic ray intensity with geomagnetic and interplanetary cause during anomalous solar activity. **Bhupendra Kumar Tiwari** and D.P.Tiwari (National conference, Paper Presented at Govt. Model Science College Rewa M.P. **Organized by UGC, MPCOST and CSIR**, during 8<sup>th</sup> -9<sup>th</sup> Feb, 2014).
8. Effect on geomagnetic storm and galactic cosmic ray (GCR) due to solar activity during 2006-2013. **Bhupendra Kumar Tiwari** and D.P. Tiwari Paper Presented in 18<sup>th</sup> National Space Science Symposium, during Jan 29-Feb 1, 2014 held at Dibrugarh (Assam)
9. Modulation in cosmic ray during the declining and minimum phase of solar cycle 23. **Bhupendra Kumar Tiwari** (National conference, on Innovation in Science & Technology for inclusive Development Paper Presented at Vigyan Bhawan Bhopal M.P. **Organized by MPCST and ISCA**, during 26<sup>th</sup> -27<sup>th</sup> Mar., 2014
10. Paper entitled Natural Resources of Energy presented in workshop on Energy Conservation Organised by Computer Vigyan Avam Bhoutiki Parishad and Govt. TRS College Rewa (M.P.) on September 25, 2014
11. Variation of CRI due to Solar-Interplanetary activity during Solar Cycle 23&24, **B.K. Tiwari** Paper Presented in National Seminar on Recent Development in Physics and Prosperity in Solar Physics Space Sciences (NSRDPPSPSS-2014), Organized by Department of Physics M.B.Govt.P.G. College, Haldwani, Nainital Uttarakhand,during Dec 27-28, 2014.
12. Impact of Solar Variability on the Heliosphere and Cosmic ray Modulation **B.K.Tiwari** and D.P. Tiwari Paper Presented in Astronomical Society of India Meeting at National Centre of Radio Astronomy (NCRA), during, Feb 17-20, 2015.
13. Effect of Solar-Interplanetary activity on CRI **Bhupendra Kumar Tiwari** , National Seminar on Recent Trends in Science & Technology Organized by MPCST& ISCA at Vigan Bhawan Bhopal on March 30-31,2015.
14. Presented research paper entitled Solar modulation of Cosmic ray. **Bhupendra Kumar Tiwari**, In Workshop on Multidisciplinary Research Organised by Govt.P.G College,Rewa M.P.on April 30, 2015
15. Effect of Solar-Variability on the Heliosphere and Cosmic ray Modulation **B.K. Tiwari** and A.P.Mishra , Paper Presented in International Conference on Space and Plasma Sciences (ICSPS-2015), Organized by Department of Physics , Vivekananda Govt.P.G. College, Maihar Dist.-Satna, M.P., during Sept. 22-24, 2015.
16. Impact of Solar Variability on Cosmic ray Modulation **B.K. Tiwari** Paper Presented in National Seminar on Space, Sciences and Environment Organized by UGC & Central Region Office Bhopal, held at Department of Physics, R.G.Govt.P.G. College, Ambikapur C.G., during Nov. 20-21, 2015.
17. Natural Resource: a Prospective on its Environment Impact **B.K. Tiwari** and B.R.Ghormare Paper Presented in National Seminar on Recent advancement in mineral and water resources, Organized by Department of Geology, Govt. Science College, Rewa M.P., during Dec. 5<sup>th</sup> - 6<sup>th</sup> , 2015.
18. Cosmic rays modulation in relation to solar and interplanetary disturbances **B.K. Tiwari** and A.P.Mishra Paper Presented in National Space Science Symposium at Vikram Sarabhai Space Centre Tiruanatpurm (Kerla) Organized by ISRO, during Feb. 9<sup>th</sup> -12<sup>th</sup> , 2016.
19. Cosmic rays modulation during the declining and minimum phase of solar cycle 23 **B.K. Tiwari** and B.R.Ghormare Paper Presented in 4<sup>th</sup> International Conference on Challenges in Environment Science and Technology IC-CEST-2016 at Swami Vivekananda

- University Sagar (M.P.) Organized by Department of Science & Technology Govt. of India and MPCST Govt. of M.P. , during Feb. 27<sup>th</sup> -28<sup>th</sup> , 2016
20. Heliospheric modulation of galactic Cosmic rays during solar minimum of solar cycle 23/24 **B.K. Tiwari** , Paper Presented in 34<sup>th</sup> Meeting of Astronomical Society of India (ASI) Kashmir University ,Srinagar during May 10-13, 2016.
  21. Research paper (A/085) Dependence of Heliospheric and Cosmic ray (CR) Modulation on Solar Activity presented in 86<sup>th</sup> Annual Session of the Academy held at Uttarakhand State Council for Science & Technology (UCOST), Dehradun from Dec.2-4,2016
  22. Research paper presented in India International Science Festival 2016, during Young Scientists Conclave held on Dec. 8-11,2016 at CSIR-NPL, Delhi
  23. Research paper entitled Heliospheric Modulation of Galactic Cosmic rays during Solar minimum of 23/24 in International Conference on Recent Trend in Mathematical Sciences & Cosmology ,Organised by Department of Mathematics & Computer Science , Govt. Model Science College Rewa M.P. During 17-18,2016
  24. Research paper (A/042) Heliospheric Modulation of Galactic Cosmic rays during Solar minimum of Solar cycle 23/24 presented in 86<sup>th</sup> Annual Session of the Academy held at Uttarakhand State Council for Science & Technology (UCOST), Dehradun from Dec.2-4,2016
  25. Research Paper Presented entitled Heliospheric Modulation of Cosmic rays during Solar Cycle 23/24 during the Conference held at Tata Institute of Fundamental Research (TIFR) Mumbai, India from January 10-13, 2017.
  26. Dependence of heliospheric and cosmic ray modulation on Solar activity paper presented in XXXV Meeting Astronomical Society of India held at B.M. Birla Science & Technology Centre Jaipur during March 6-10, 2017.
  27. Paper Presented in 5<sup>th</sup> Bhartiya Vigyan Sammelan and Expo, held at Fergusson College Pune, from May 11-14, 2017
  28. Role of Atmospheric Aerosol in Air Quality and Climate Change .paper presented in UPCAR held at NARL Tirupati during June 26-28, 2017
  29. Galactic Cosmic ray Modulation during solar minimum of SC 23/24. Paper presented in India International Science Festival organized by CSIR, CLRI, CSIR-SCRS, NIOT held at Chennai during Oct. 14-15, 2017.
  30. Paper presented (PHY/039) titled Galactic Cosmic rays Modulation during Solar minimum of SC23/24 in 88<sup>th</sup> Annual Session of the Academy (NASI) held at Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot Satna M.P. during DEC,6-8, 2018.
  31. Study of solar interplanetary causes and their impact on GCR fluxes during SC23/24. International Conference on Exploring the universe near earth science of extra galactic Astronomy organized by S.N. Bose national Centre for basic sciences Kolkata during NOV.14-17,2018
  32. Paper presented in national Conference on Effect of Space Environment on Blue planet held at Govt. T.R.S. College Rewa M.P. During April 22-23, 2018.
  33. Variation in GCRs due to solar activity between 1996-2018. Paper presented in 22<sup>nd</sup> International conference on International Academy of Physical Sciences (CONIAPXXXII) held at Dr.Ram Monahar Lohia Avadh University Faizabad U.P. During April 13-15, 2018

34. Solar – Interplanetary of Galactic Cosmic rays oral Presentation on national conference on Recent trends in Space science and Nano materials sponsored by MPCST and APSU Rewa held at APSU Rewa during March 26-27, 2018.
35. The heliospheric theory of Gravitation, paper presented in 3<sup>rd</sup> world congress on VedicSciences organized by Vijnana Bharti , Deccan College , Govt. Maharastra and Govt. of Goa on Jan.10-13,2018.
36. Study of Solar interplanetary causes and their impact on GCR fluxes during solar minimum of solar cycle 23/24. Paper presented in XXXVI meeting of Astronomical Society of India department of Astronomy , Osmania University Hyderabad duing Feb, 5-9, 2018
37. Paper presented **Effect of Solar -Variability on Cosmic Rays** in 20<sup>th</sup> National Space Science Symposium, (NSSS2019) organized by SPPU , IUCAA and NCRA Pune during Jan.29-31, 2019
38. Paper presented in 12<sup>th</sup> International conference on Plasma Sciences and application (ICPSA2019) held at University of Lucknow during Nov., 11-14, 2019
39. Study of solar interplanetary causes and their Impact on GCR Fluxes paper presented XXXVIII meeting of the Astronomical Society of India organized by IISER Tirupati during Feb, 13-17, 2020.
40. Solar –Interplanetary Impact on Galactic Cosmic Ray Fluxes Paper Presented in 27<sup>th</sup> International Conference of International Academy of Physical Sciences ( CONIAPS XXVII ) on Mathematics and Science in Ancient India Organized by Vikram University Ujjain(M.P.)-India During October 26-28, 2021.
41. 7<sup>th</sup> International Science Festival (IISF2021) during 10-13, November ,2021 Panji Goa, Celebrating Creativity in Science Participated in Global India Scientists & Technocrats Fest. organized by Government of India.
42. 41<sup>ST</sup> Meeting of Astronomical of India ( ASI ) during March 1-5, 2023 organized by Indian Institute of Technology Indore and Astronomical of India ( ASI ) , presented a research papers titled Impact of Solar variability on cosmic rays intensity and Geomagnetic field
43. **3rd BINA ( Indo - Belgium)** Workshop organized by Govt, of Belgium and Aryabhata research Institute of Observatory Sciences during March 20-24, 2023 held at Era Hill university Bhimtal campus Uttrakhand.
44. 8<sup>th</sup> International Science Festival (IISF2022) during 21-24, January,2023 at MANIT Bhopal, Madhya Pradesh Celebrating Creativity in Science Participated in Jams & Toys. organized by Government of India.
45. Paper presented entitled “**Analysis of Galactic Cosmic rays in the heliosphere (Diffusion of Proton and Nuclei)**” in 42<sup>nd</sup> annual meeting of The Astronomical Society of India (ASI-2024) jointly organised by IISC , ISRO & JNP at Bangluru.
46. Papre entitled सौर-अंतरग्रहीय कारणों से कॉस्मिक किरण तीव्रता में आवधिक विविधताओं का अध्ययन presented in Rastriya Hindi Vigyan Sammelan Jointy Organised by CSIR -AMPRI Bhopal , Vigyan Bharti Mahakaushal Prant , MPCST, CSIR-NISPR New-Delhi , Bhoj University Bhopal and Atal Bihari Hindi University Bhopal at AMPRI Bhopal during 30-31, July 2024
47. Paperentitled Periodic changes in Galactic Cosmic Rays with Solar- interplanetary causes in international conference oraganised by MPCST and APS university Rewa during 13-14, November ,2024 in Mathematical Sciences Department of A.P.S.University Rewa (M.P.)

## Participated in Workshop

1. Workshop on Application of Space Technology for Development of Vindhya Region, held at, Rewa(M.P.),**Organized by Indian Society of Remote Sensing,Bhopal Chapter**, Bhopal During, Apr. 16, 2010.
2. National level Meeting on Science with upcoming and planned solar facilities in the country, **Organized by IIA**, held at, Bangalore, during Nov.2-3, 2011.
3. Participated in **International** Centre for Theoretical Sciences (ICTS) at the National Atmospheric Research Laboratory (NARL) Gadanki, A.P. **Organized by TIFR and Department of Space, Govt. of India**, during 18-23, Feb, 2013.
4. Workshop **Rem-Space 2013**, held at University of Calcutta, **Organized by UGC and NRCP** During, March 4th-22<sup>nd</sup>, 2013. **(20 Days)**
5. Short-term variations in cosmic ray intensity on the earth and its association with geomagnetic storm. **Bhupendra Kumar Tiwari** and D.P.Tiwari, presented in workshop in NESAC -2013, **Organized by IGU**, at Shilong Meghalaya. During April 22-23, 2013.
6. International Workshop on computer Forensics, **Organized by Bhoutki Avam Computer Parishad .Govt. T.R.S.College Rewa M.P..** During 6<sup>th</sup> August, 2013.
7. Workshop on Star & Planet Formation, Organized by TFIR Mumbai at Department of Astronomy & Astrophysics IUCCA, Pune during Feb 16, 2015.
8. Workshop on Fundamentals of GNSS/IRNSS and Applications to Atmospheric science held at NARL Gadanki (A.P.) On Feb 26, 2016.
9. Workshop on Rural and Tribal communities of India in smart cities held at Jabalpur (M.P.) On March 20-21, 2016 organized by Vigyan Bharti
10. Workshop on ICT in Rural development Opportunities and Challenges held at MGGC Vishwavidyalaya, Chitrakoot Satna ( M.P.) On March 29-30, 2016 organized by Vigyan Bharti.
11. Workshop attended on the Tools and trends in high resolution optical spectroscopy Organised as a part of 34<sup>th</sup> Meeting of Astronomical Society of India (ASI) Kashmir University, Srinagar during May 10-13, 2016
12. National Conclave on New Education Policy: Issues & Challenges in Higher Education held on 16th Oct.2016 at A.P.S.University Rewa( M.P.)
13. Participated in Pre- Confrence Workshop in IX International Conference on Oriental Astronomy at IISER Pune during Nov.12-14, 2016
14. Participated in Confrence IX International Conference on Oriental Astronomy at IISER Pune during Nov.15-18, 2016
15. Volunteer during Lab Session in INSPIRE Ierernship Science Camp-2016 Organised by A.P.S.University Rewa( M.P.) during Dec, 05-09,2016
16. UGC-DAE Consortium for Scientific Research, DAVV University Indore during Aug . 28-Sept.1, 2017.
17. Participated in India International Science Festival 2017, held at Chennai on Oct.13, 2017
18. Regional Workshop Organised by Govt.Girls P.G. College & Mahakaushal Vigyan Parishad (Vigyan Bharti ) on January 27,2018
19. Participated in seminar on Water Resourees Consevation for Present and Future India Jointly Organised by Department of Envionment Biology ans Mahakaushal Vigyan Parishad , Vigyan Bharti Rewa on 5th June 2018at A.P.S.University Rewa (M.P. )
20. Participated in Workshop organized by Department of English APSU Rewa during April 1-12, 2019.

21. **ISSN 0130-7673 J “Jigyasa2021”** 5 Days National Workshop for Popularization of Science on Swatantrata Ka Amrit Mahotsav: Contribution of Indian Scientists during 19 to 23 October 2021.
22. **One Week** National Level E-Workshop on entitled “Research Methodology Tools and Techniques” Organized by Department of Physics Sponsored by: Department of Higher Education, RUSA & World Bank Scheme MPHEQIP, on dated 01 – 07 November 2021.
23. National Discipline Workshop organized by Awadesh Protap Singh University Rewa (M.P.) during 21<sup>st</sup> -22<sup>nd</sup> February, 2023 participated as co-convenor of the Workshop.
24. Participated in Workshop Jointly organized by Sainanjali Samiti, MPCST Bhopal & A.P.S. University Rewa (M.P.) in the Department of Bio-Technology, in the Campus of APSU Rewa on 3<sup>rd</sup> January,
25. Participated in Workshop on Aditya L1 at ISRO Head Quarter, Antariksh Bhavan Bangluru organized by , ISRO on 31<sup>st</sup> January, 2024.

### **Webinar Participated**

- 1 National Webinar Azadi Ka Amrit Mahotsav on Nuclear Power for Sustainable Development Under Aegis of Public Outreach Center & Institute of Renewable Energy Technology & Management Pt.Ravi Shankar Shukla University Raipur (C.G.) on September 04,2021.
2. National Webinar on Solar Modulation of Cosmic Rays Organised by Department of Physics ,Department of Higher Education ,RUSA& World Bank Scheme MPHEQIP on September 25, 2021
3. National Webinar on RECENT TRENDS IN PHYSICAL SCIENCE Organised Jointly by Department of Physics Govt. Model Science College Rewa M.P. and Department of Higher Education Bhopal M.P. on May 25<sup>th</sup> , 2024.
4. National Webinar on Navigating NDLI : Unveiling Research Treasures for Scholars Organised Jointly by Directorate Research , IQAC and E-Library Treasures for Scholars , APSU NDLI Club Rewa on October 07<sup>th</sup> , 2024.

### **Faculty Development Programme**

- 1 National Faculty Development Programme on New Education Policy 2020: An Orientation Organised by A.P.S.University Rewa (M.P.) held from 20.9.2021 to 25.9.2021.

### **Papers for Oral Presentation**

During the present investigation I, Bhupendra Kumar Tiwari has paper accepted for Presentation during the technical sessions. The list is given as follows:

1. Transient decrease in cosmic ray intensity and its association with interplanetary

- and geomagnetic parameters in declining phase of solar cycle 23 . **Bhupendra Tiwari** , Paper Presented in Seminar, Department of Engineering Physics,Rishiraj Institute of Technology, Indore (M.P.), Oct, 20, 2011.
2. Study of major Forbush decrease of amplitude  $\geq 4\%$  and its association with interplanetary and geomagnetic parameters in declining phase of solar cycle 23. **Bhupendra Tiwari** ,D.P. Tiwari and A.P.Mishra , Paper Presented in 26 National level Seminar on plasma , held at Patna (Bihar.), during , Dec. 21- 23 , 2011.
  3. The attenuation of the Forbush decrease on the earth surface due to passing of the ICME during declining phase of 23<sup>rd</sup> solar activity cycle **Bhupendra Kumar Tiwari** and D.P. Tiwari paper presented in second international workshop on Frontiers of Atmospheric Physics and Technology ,held at Yogi Vermana University , Kadapa (A.P.),During 1-3, March 2012 .
  4. Infrasound climatology using global network of IMS stations, **Bhupendra Kumar Tiwari** (CARCAN-2012)” to be held at Vignana Bharathi Institute of Technology (VBIT), Hyderabad during 21-22 December, 2012
  5. Major geomagnetic storm due to solar activity (2006-2013) **Bhupendra Tiwari** **40th COSPAR Scientific Assembly, 2 -10 August 2014, Moscow, Russia**
  6. Innovation and Revitalization in undergraduate Physics Plans **Bhupendra Kumar Tiwari** Regional meet on Science Education to be held at National Council of Educational Research & Training Bhopal on Feb 28,2015.
  7. Impact of Solar Variability on Cosmic ray modulation **Bhupendra Kumar Tiwari** National Space Seminar on Science and Environment, to be held at Ambikapur (C.G.) during NOV.20-21,2015.
  8. Heliospheric Impact on Cosmic rays Modulation **B.K. Tiwari** , Paper accepted for Presented in 41<sup>th</sup> COSPAR Scientific Assembly , Istanbul,Turkey during 30July - 07 August, 2016
  9. National Conclave on Energy and Environment during November 1-2, 2022, organised by Power Foundation of India , Ministry of Power (GOL), Vijnana Bharati(Vibha) and M.P. Council of Science & Technology held at Vigyan Bhavan , MPCST, Bhopal.
  10. सौर-अंतरग्रहीय कारणों से कॉस्मिक किरण तीव्रता में आवधिक विविधताओं का अध्ययन presented in Rastriya HindiVigyan Sammelan Jointy Organised by CSIR-AMPRI Bhopal, Vigyan Bharti Mahakaushal Prant , MPCST, CSIR-NISPR New-Delhi ,Bhoj University Bhopal and Atal Bihari Hindi University Bhopal at AMPRI Bhopal during 30-31, July 2024.

#### Invited Talk

Periodic changes in Galactic Cosmic Rays with Solar- interplanetary causes in international conference organized by MPCST and APS university Rewa during 13-14, November,2024 in Mathematical Sciences Department of A.P.S.University Rewa (M.P.)