**Dr. (Smt) SWARNIMA BAHADUR**

**Publications**

1. With K. K. Mathur) Quasi-Hermite Interpolation on unit circle, **Ganita**, vol. 49(1), 1998, 1-6.
2. (With K. K. Mathur ) Weighted (0,2)\* Interpolation On Unit Circle , **International J. Appl. Math. Stat.,** Vol. 20,,M 11, 2011 [**ISSN**:0973-1377(Print),0973-7545(Online)].
3. (With K. K. Mathur) Weighted (0, 1, 3)\* Interpolation On Unit Circle , **American J. Math. Stat.** ,2013, 3(6), 337 – 347 (**p - ISSN**: 2162-948X    **e-ISSN**: 2162-8475)
4. (0, 1, 2) Interpolation On Unit Circle, **South East Asian J. Math. & Math. Sci**., Vol.9 ,No.3(2010), pp.31—37 (**ISSN** 0972-7752)
5. (With K. K. Mathur ) Mixed Type Interpolation On Circle, **J. Ultra Scientist**, 22(2M), 369-374( 2010) (**ISSN** 0970-9150).
6. Pl –Type (0,1;0) Interpolation On The Unit Circle, **Advances in Theoretical and Applied Mathematics**. Volume 6, Number 1 (2011), pp. 35–39 (**ISSN:** 0973-4554).



1. (0;0,1) Interpolation on the Unit Circle, **International J. Math. Anal**., Vol. 5, 2011,No. 29, 1429-1434 **(ISSN**:1312-8876).
2. Convergence of Hermite Interpolation, **Global Journal of Theoretical and Applied Mathematics Sciences**, Volume 1, Number 2 (2011), pp. 115-119 (**ISSN**: 2248-9916).
3. Convergence of Lagrange Interpolation on the Unit Circle; **International Math. Forum**, Vol. 7, 2012, no. 4, 189-192 (**ISSN**: 1312-7594).
4. (0, 2; 0) –Interpolation on unit circle, **Italian J. Pure Applied Math,**Vol. 32, 2014, 57 - 66 **(ISSN** 2239-0227**) ( UGC** -  **25683)**
5. (0;0,2) – Interpolation on unit circle**: International J. Math. Sci**., Vol.11, No. 1-2, 2012, 103-111 (**ISSN**: 0972-754X).
6. A Study of Pál-Type Interpolation, in **Theoretical Mathematics and Applications**.. 2(1), 2012, 81 – 87 [**ISSN**:1792-9687(Print),1792-9702(Online)].
7. (With M. Shukla) A New Kind of Hermite Interpolation, **Advances Inequal. Appl**. 2014, 2014:13(**ISSN:** **2050-7461**) **( UGC** -  **48787)**
8. (With M. Shukla) (0,2) - Interpolation on the Unit circle**; International J. Adv. Research & Tech**. 3(1) , 163 – 171 Jan 2014. (**ISSN** 2278-7763)
9. (With M. Shukla) (0,1,3)\* - Interpolation on the Projected nodes on the Unit Circle; **International J. Pure & Appl. Math**. **Sci.** 7 (1), 2014, 91 – 102. ( **ISSN**: 0972 – 9828)
10. (With M. Shukla) Convergence of Lagrange – Hermite Interpolation **Italian J. Pure & Appl. Math.** 33, 2014, 255 – 262. **(ISSN** 2239-0227) **( UGC Listed** -  **25683)**
11. (With M. Shukla) Hermite – Lagrange Interpolation on the Unit circle, **J. of Advances in Mathematics** 9(1), 2014, 1817 – 1821. **(ISSN** 2347 - 1921)
12. (With M. Shukla) On the Derivative of Jacobi Polynomial; **Asian J. Mathematics and Applications ,** 2014 **,** Article ID 0163, 6 pages, **(ISSN 2307 - 7743** )
13. (With S. Bano) On Weighted (0,2) Interpolation; **Global J. of Pure and Appl. Math.**; 13(2), 2017, 319 – 329.(**ISSN 0973 – 1768**). **( UGC** (old list) -  **27985)**
14. On Pal- Type Interpolation I ; **Int. J. Comp. and Appl. Math**.; 12(1), 2017, 99 – 103.(**ISSN 1819 – 4966**) **( UGC** (old list) -**1964)**
15. On Pal- Type Interpolation II ; **Italian J. Pure & Appl. Math.** 38 **,** 2017, 414 – 418.  **(ISSN** **1126 - 8042**) **( UGC Listed** -  **25683)**
16. (With S. Bano) Weighted (0;0,2) Interpolation on the unit circle ; **Advances Inequal. Appl**. 2018, 2018:1 (**ISSN:** **2050-7461**) **( UGC Listed** -  **48787)**
17. ( With Varun) Convergence of Lagrange – Hermite Interpolation on Unit Circle; **Int. J. Math. Archive,** Vol. 8(11), Nov. 2017, 167 – 170. (**ISSN: 2229 – 5046) ( UGC** (old list) -  **47756)**
18. (With S. Bano) Modified Hermite Interpolation on the Unit Circle; **Annals Pure Appl. Math.** , Vol 14(3), 2017, 531 – 537(**ISSN:** **2279 – 087X Print, 2279 – 0888 online) ( UGC**(old list) -  **48890)**
19. ( With Varun) Convergence of Interpolatory Polynomial Between Lagrange and Hermite; **Annals Pure Appl. Math**. , Vol 17 (1), 2018, 23 – 28 (**ISSN:** **2279 – 087X Print, 2279 – 0888 online) ( UGC**(old list) -  **48890)**
20. (With S. Bano) Convergence of derivative of (0,2) Interpolatory polynomial; J. Math. comput. Sci., 8 (2018) No. 5, 611 – 619. (**ISSN: 1927 – 5307) ( UGC Listed** -  **48795)**
21. (With R K Katheriya) Hermite Trigonometric Interpolation; Ganita, , 68(1), 2018, 47 – 52. (**ISSN:0046 – 5402) ( UGC Listed** -  **17922)**
22. (With R K Katheriya) On (0,1,2) Trigonometric Interpolation; Int. J. Math. and Appl. 6(2-A), 2018, 113 – 118. (**ISSN:2347 – 1557) ( UGC**(old list) -  **62807)**

**Conferences & Seminars**:

1. Participated & presented a paper in the annual conference on Mathematics 1995 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy, Lucknow University
2. Participated & presented a paper in the annual conference on Mathematics 1996 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy,Lucknow University
3. Participated & presented a paper in the annual conference on Mathematics 1997 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy,Lucknow University
4. Participated & presented a paper in the annual conference on Mathematics 1998 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy,Lucknow University
5. Participated & presented a paper in the Golden Jubliee **International** **conference on Mathematics** Organised by **Bharat Ganita Parishad-1999** held at the Department of Mathematics and Astronomy, Lucknow University
6. Participated in the 89th **Indian Science Congress**- 2002 held at Lucknow University
7. Participated in the 69th conference of **Indian Mathematical Society**- 2003 held at the Department of Mathematics and Astronomy Lucknow University
8. Participated in the annual conference on Mathematics 2003 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy ,Lucknow University
9. Participated in the annual conference on Mathematics 2004 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy ,Lucknow University
10. Participated in the annual conference on Mathematics 2005 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy ,Lucknow University
11. Participated in the annual conference of on Mathematics 2006 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy ,Lucknow University
12. Participated in the annual conference on Mathematics 2007 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy ,Lucknow University
13. Participated in the conference on Mathematics-2008 at the Department of Mathematics and Astronomy, Lucknow University, Lucknow by **Bharat Ganita Parishad**
14. Participated in the **Seminar on Frontiers of Spectroscopy** -2008 by University of Lucknow & MRSI- Lucknow Chapter held at Department of Physics, Lucknow University
15. Participated in **National Symposium** on **Modern Trends in Differential Geometry and Mathematical Modelling in Bio-Science** under UGC SAP (DRS-1) Programme held on December 2008 in the Department of Mathematics, Lucknow University, Lucknow
16. Participated in the workshop of SLO - 2010 by **CSULB** and **University of** **Lucknow** held at Academic Staff College, Lucknow University
17. Participated in the 2nd National Symposium on ***“*Modern Trends in Differential Geometry and Mathematical Modelling in Bio-Sciences”**on January 2010 in Department of Mathematics, Lucknow University, Lucknow
18. Participated in the 3rd National Symposium on ***“*Modern Trends in Differential Geometry and Mathematical Modelling in Bio-Sciences*”*** on January 2011 in Department of Mathematics, Lucknow University, Lucknow
19. Participated in **National Conference on Recent Advances in Mathematics** held at the Department of mathematics & Astronomy, University of Lucknow on Feb. 2012
20. Participated in the annual conference on Mathematics (March-2013) by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy Lucknow University
21. Participated in the **National conference on Role of Mathematics i**n Advancement of Science & Technology, 2013 held at BSNV, Lucknow
22. National Seminar for **Popularization of Astronomy** ((NSPA- 2013) held at Department of Physics, Lucknow University
23. Participated in the annual conference of **Bharat Ganita Parishad**-2013 (Nov.- Dec., 2013) held at Department of Mathematics, Lucknow University
24. Participated in **one day Workshop on CAS** held on July 2015 at BSNV, Lucknow.
25. Attended and presented a paper in a one day SYMPOSIUM on “ **LaTeX and Allied Topics”** on November 01, 2015 at HRD Centre , Lucknow University.
26. Participated and presented a paper in the conference on **“Recent Trends in Mathematics: Topological Algebraic Analysis & Applications**” Held on November 21 – 22, 2015 at the Department of Mathematics & Astronomy, University of Lucknow.
27. Participated and presented a paper in the **conference on Mathematics** Held on November 19 – 20, 2016 at the Department of Mathematics & Astronomy, University of Lucknow
28. Participated & presented a paper in the annual conference on Mathematics 2017 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy,Lucknow University
29. Participated & presented a paper in the annual conference on Mathematics 2018 by **Bharat Ganita Parishad** held at the Department of Mathematics and Astronomy,Lucknow University