

BIO-DATA



1. Name: Harish Chandra
2. Father's name: Shri Ishwaridatt
3. Date of birth: 15th September, 1963
4. Designation: Senior Professor
5. Address (a) Permanent: Village –Kaphalet,
P.O. Pankhu
Distt.: Pithoragarh
Uttarakhand
(b) For correspondence: Department of Mathematics
Institute of Science
Banaras Hindu University
Varanasi-221005

6. Academic Qualifications and experience of teaching and research :

- (a) M.A(Mathematics) from BHU in 1987 first class and first in order of merit.
(b) Qualified NET (JRF) in 1986.
(d) Ph.D. (Title: **Composition Operators on Function Algebras Associated H^p spaces**) and research specialization: **Functional analysis and operator theory.**
(e) **Awarded Post Doctoral visiting fellowship in school of Mathematics, TIFR, Mumbai, 1993.**
(f) Lecturer and Assistant professor in the Department of Mathematics BITS Pilani from July 1995 to May 2004.
(g) Joined as reader in the Department of Mathematics on 25th May 2004 and promoted as Professor w.e.f. 25th May 2010.
(h) Promoted to the rank of **Senior Professor** in the department of Mathematics on **25th May, 2020.**

7. Research specialization: Functional Analysis and Operator Theory.

8. Publications during last 10 years:

1. [A characterization of zero divisors and topological divisors of zero in \$C\[a,b\]\$ and \$\ell_\infty\$](#)
[Chandra, Harish](#); [Patel, Anurag Kumar](#) [Commun. Korean Math. Soc.](#) **38** (2023), no. [2](#), 451–459
2. [Isolation amongst composition operators on \$L_p\(\mu\)\$ -spaces \(\$1 \leq p \leq \infty\$ \)](#)
[Naudiyal, Ashish](#); [Chandra, Harish](#) [Oper. Matrices](#) **17** (2023), no. [1](#), 167–177.
3. [Antinormality and \$m\$ -isometry of shift on weighted trees](#)
[Khan, Mohammad Irshad](#); [Chandra, Harish](#) [Arab. J. Math. \(Springer\)](#) **11** (2022), no. [2](#), 327–339.
4. [Hypercyclicity, supercyclicity, and cyclicity of a weighted composition operator on \$\ell_p\$ spaces](#)
[Srivastava, Vijay K.](#); [Chandra, Harish](#) [Georgian Math. J.](#) **28** (2021), no. [6](#), 971–979.
5. [Essential ascent and essential descent of weighted composition operators on \$\ell_p\$ spaces](#)
[Chandra, Harish](#); [Kumar, Pradeep](#) [South East Asian J. Math. Math. Sci.](#) **16** (2020), no. [3](#), 51–60.
6. [Antinormal weighted composition operators on \$L_2\(\mu\)\$ -space of an atomic measure space](#)
[Kumar, Dilip](#); [Chandra, Harish](#) [Arab. J. Math. \(Springer\)](#) **9** (2020), no. [1](#), 137–143.
7. [Antinormal composition operators on \$L_2\$ -space of an atomic measure space](#)
[Kumar, D.](#); [Chandra, H.](#) [Ukrain. Mat. Zh.](#) **71** (2019), no. [1](#), 92–98. [Ukrainian Math. J.](#) **71** (2019), no. [1](#), 102–110.
8. [Hypercyclicity, supercyclicity and cyclicity of composition operators on \$\ell_p\$ spaces](#)
[Srivastava, Vijay Kumar](#); [Chandra, Harish](#) [J. Indian Math. Soc. \(N.S.\)](#) **86** (2019), no. [1-2](#), 187–198.
9. [Antinormal weighted composition operators](#)
[Kumar, Dilip](#); [Chandra, Harish](#) [Abstr. Appl. Anal.](#) (2016), Art. ID 5767426, 5 pp.
10. [Antinormal composition operators on \$\ell_2\(\lambda\)\$](#) [Kumar, Dilip](#); [Chandra, Harish](#) [Mat. Vesnik](#) **68** (2016), no. [4](#), 259–266.
11. [Composition operators on Poisson weighted sequence spaces](#) [Kumar, Dilip](#); [Chandra, Harish](#) [Funct. Anal. Approx. Comput.](#) **8** (2016), no. [1](#), 21–37.
12. [Local spectral theory of endomorphisms of the disk algebra](#)
[Trivedi, Shailesh](#); [Chandra, Harish](#) [Demonstr. Math.](#) **49** (2016), no. [1](#), 95–106.
13. [Local spectral properties of a composition operator on \$L_p\$ spaces](#)
[Trivedi, Shailesh](#); [Chandra, Harish](#) [J. Indian Math. Soc. \(N.S.\)](#) **82** (2015), no. [3-4](#), 219–226.
14. [Decomposability of weighted composition operators on \$L_p\$ of atomic measure space](#)
[Trivedi, Shailesh](#); [Chandra, Harish](#) [Funct. Anal. Approx. Comput.](#) **7** (2015), no. [1](#), 1–13.

15. [Some results on local spectral theory of composition operators on \$l_p\$ spaces](#)
[Trivedi, Shailesh](#); [Chandra, Harish](#) [Mat. Vesnik 66 \(2014\)](#), no. 3, 294–300.

9. Courses taught as Instructor /Instructor-in-charge:

(a) Multi-section courses:

- (i) Advanced Calculus.
- (ii) Linear Algebra.
- (iii) Complex Variables.
- (iv) Optimization Techniques.
- (v) Probability and Statistics.
- (vi) Graphs and Networks.
- (vii) Discrete Mathematics.

(b) Single-section M.Sc.Courses:

- (i) Topology.
- (ii) Functional Analysis.
- (iii) Real Analysis.
- (iv) Theory of Linear Operators.

10. Memberships:

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- (a) Member NBHM North Central Region Library Committee with effect from March 27, 2012.
- (b) Member of the core committee and Principal Investigator in **DST-Center for Interdisciplinary Mathematical Sciences” (CIMS)** (2007-16) in Banaras Hindu University.
- (c) Life member of **Ramanujan Mathematical Society**.

- (d) Academy fellow (mentor) of **INSPIRE** programme of **Department of Science and Technology**, New Delhi.

11. CONFERENCES/SYMPOSIUM /WORKSHOPS ORGANISED:

- (I) **“National conference on modern analysis and allied areas”** in FEB 23-24, 2007 in the Department of Mathematics Banaras Hindu University.
- (II) **“Instructional Workshop on Wavelet analysis”** at BHU, Varanasi, sponsored by Department of Science and Technology during 22nd Oct – 5th Nov 2007.
- (III) DST sponsored **“Advanced Training Programme in Functional Analysis”** from 21st June 2010 to 4th July 2010 in the Department of mathematics BHU.

11. INVITED SPEAKER:

- (1) Delivered a talk in the **“International Conference on Function Spaces and Inequalities” on “Anti-normal operators”** held at **South Asian University**, New Delhi, during Dec., 08-12, 2015.
- (2) Contributed as a **Mentor** (resource person) in the **Science Camp** under **“INSPIRE INTERNSHIP”** programme of DST organized at **Shri Ram Murti Smarak College of Engineering & Technology**, Bareilly, from Nov., 27 to Dec., 01, 2014.
- (3) Delivered a talk **“Local Spectral Theory and Compositions operators”** **78th Annual Conference of The Indian Mathematical Society**, held at Banaras Hindu University, Varanasi, during January 22-25, 2013.
- (4) Delivered a series of lectures in NBHM sponsored **“Advanced Training in Mathematics for Lecturers in Differential Geometry”** held at the Department of Mathematics, Kumaun University (Almora Campus) Almora from 21st May -10th June, 2012.
- (5) Delivered a series of lectures in NBHM sponsored **“Advanced Training in Mathematics for Lecturers in Geometric Complex Analysis”** held at the Department of Mathematics, University of Delhi from 21st March -2nd April, 2011.
- (6) Delivered a series of lectures in NBHM sponsored **“Advanced Training in Mathematics for Lecturers in Real Analysis”** held at the Department of Mathematics, University of Delhi from 21st March -2nd April, 2011.
- (7) Delivered a talk on **“Composition operators and Invariant subspace problem”** in the National Meet on Mathematical Sciences organized by the Department of Mathematics, University of Delhi from 6th to 9th January 2010.

(8) Delivered invited talk on “**Shift Invariant Subspaces of Composition operators**” on 29-12-2008 at the annual conference of the Indian Mathematical Society held at the Department of Mathematics, University of Allahabad.

12. Research Guidance:

Number of research scholars awarded Ph.D.: 08

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