

Full List of Publications:

1. **Akhilesh Prasad**, S. Ranjan, An operational calculus of μ^{th} order Mehler-Fock transform, *Complex Anal. Oper. Theory*, **19** (2), pp. 1-33, (2025). (**Springer-Birkhauser**).
2. R. K. Verma and **Akhilesh Prasad**, Besov-type spaces associated with Dunkl wavelet transform on \mathbb{R} , *Math. Methods Appl. Sci.*, DOI: 10.1002/mma.10769, (2025). (**Wiley**)/SCIE.
3. **Akhilesh Prasad**, U. K. Mandal and Sudhanshu Ranjan, The μ^{th} order Mehler-Fock transform and allied pseudo-differential operator, *Integral Transforms Spec. Funct.*, **36** (3), pp. 163-175, (2025). (**Taylor & Francis**)/SCIE.
4. C. Roy, T. Kumar, **Akhilesh Prasad**, and G. K. Jha, Pseudo-differential operators associated with a pair of quadratic-phase Hankel transformations, *J. Pseudo-Differ. Oper. Appl.*, **16** (1), Article number: 05, pp. 1-26, (2025). (**Springer-Birkhauser**)/ SCIE.
5. C. Roy, **Akhilesh Prasad** and G. K. Jha, The wave packet transformation in the framework of quadratic-phase Hankel transformation, *Int. J. Appl. Comput. Math.* **11** (1), Article number: 02, pp. 1-12, (2025). (**Springer**) / **ESCI**.
6. A. K. Gupt and **Akhilesh Prasad**, The Heat Kernel in the Framework of the Lebedev-Skalskaya Transform, *Appl. Anal.*, DOI: 10.1080/00036811.2024.2431613, (2024). (**Taylor & Francis**)/SCIE.
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9. C. Roy, T. Kumar, **Akhilesh Prasad**, and G. K. Jha, The wavelet transformation associated with quadratic-phase Hankel transform, *Natl. Acad. Sci. Lett.* DOI: 10.1007/s40009-024-01423-2, (2024). (**Springer**) / SCIE.
10. S. Varghese, **Akhilesh Prasad** and M. Kundu, Properties and applications of quaternion quadratic phase Fourier transforms, *J. Pseudo-Differ. Oper. Appl.*, **15** (4), Article number: 84, pp. 1-26 (2024). (**Springer-Birkhauser**) / SCIE.
11. **Akhilesh Prasad** and M. Kundu, Spectrum of quaternion signals associated with quaternion linear canonical transform, *J. Franklin Inst.*, **361** (2), pp. 764-775 (2024). (**Elsevier**)/SCIE.
12. A. K. Gupt, U. K. Mandal and **Akhilesh Prasad**, Lebedev-Skalskaya transform related continuous wavelet transform, *Results Math.*, **79** (3), Article number: 99, pp. 1-21 (2024). (**Springer-Birkhauser**)/SCIE.
13. **Akhilesh Prasad**, R. K. Verma and S. K. Verma, Wavelet transform associated with Dunkl transform, *Integral Transforms Spec. Funct.*, **35** (9), pp. 481-496, (2024). (**Taylor & Francis**)/SCIE.
14. J. S. Maan and **Akhilesh Prasad**, A pair of pseudo-differential operators involving index Whittaker transform in $L_2^a(\mathbb{R}_+; m_a(x)dx)$, *Acta Math. Sin. (Engl. Ser.)*, **40** (6), pp. 1420-1430, (2024). (**Springer**)/SCIE.
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16. J. S. Maan and **Akhilesh Prasad**, Index Whittaker transform for Boehmians, *Indian J. Pure Appl. Math.*, **55** (2), pp. 489-500-315 (2024). (**Springer**)/**INSA/SCIE**.
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18. A. K. Gupta and **Akhilesh Prasad**, The infinite-order integro-differential operator related to Lebedev-Skalskaya transform, *J. Pseudo-Differ. Oper. Appl.*, **15** (2), Article number: 21, pp. 1-16 (2024). (**Springer-Birkhauser**) / **SCIE**.
19. **Akhilesh Prasad** and R. K. Verma, Weyl transforms associated with Dunkl wavelet transform, *Complex Anal. Oper. Theory*, **17** (7), Article number: 110, pp. 1-17, (2023). (**Springer-Birkhauser**)/**SCIE**.
20. U. K. Mandal and **Akhilesh Prasad**, The generalized Kontorovich-Lebedev transform and associated operators, *Rev. R. Acad. Cienc. Exactas Fis. Nat. Ser. A Mat.* RACSAM, **117** (3), Article: 126, pp. 1-15, (2023). (**Springer**)/**SCIE**.
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26. P. B. Sharma and **Akhilesh Prasad**, Abelian theorems for quadratic-phase Fourier wavelet transform, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.*, **93** (1), pp. 75-83, (2023). (**Springer**).
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