

Research Work:

1. *Twisted spherical means in annular regions in  $\mathbb{C}^n$  and support theorems*, R. Rawat and R. K. Srivastava, **Ann. Inst. Fourier (Grenoble)**, **59** (2009), no. 6, 2509-2523. pdf, [arXiv:0903.3854](#)
2. *Spherical means in annular regions in the  $n$ -dimensional real hyperbolic spaces*, R. Rawat and R. K. Srivastava, **Proc. Indian. Acad. Sci.** **121** (2011), no.3, 311-325. pdf, [arXiv:0908.2289](#)
3. *Sets of injectivity for weighted twisted spherical means and support theorems*, R. K. Srivastava, **J. Fourier Anal. Appl.** **18**(3), (2012), no. 3, 592-608. pdf, [arXiv:1012.5167](#)
4. *Real analytic expansion of spectral projection and extension of Hecke-Bochner identity*, R. K. Srivastava, **Israel J. Math.** **200** (2014), 1-22. pdf, [arXiv:1204.3076](#).
5. *Coxeter system of lines and planes are sets of injectivity for the twisted spherical means*, R. K. Srivastava, **J. Funct. Anal.** **267** (2014) 352-383. pdf, [arXiv:1103.4571](#)
6. *Non-harmonic cones are sets of injectivity for the twisted spherical means on  $\mathbb{C}^n$* , R. K. Srivastava, **Trans. Amer. Math. Soc.** **368** (2016), no. 3, 1941-1957. pdf, [arXiv:1306.5658](#).
7. *Heisenberg uniqueness pairs for some algebraic curves in the plane*, Deb Kumar Giri and R. K. Srivastava, **Adv. Math.** **310** (2017), 993-1016. pdf, [arXiv:1506.07425](#)
8. *Non-harmonic cones are Heisenberg uniqueness pairs for the Fourier transform on  $\mathbb{R}^n$* , R. K. Srivastava, **J. Fourier Anal. Appl.** **24** (2018), no. 6, 1425-1437. pdf DOI: [arXiv:1507.02624](#)
9. *Heisenberg uniqueness pairs on the Euclidean spaces and the motion group*, Arup Chattopadhyay, S. Ghosh, D.K. Giri and R.K. Srivastava, **C. R. Math. Acad. Sci. Paris** **358** (2020), no. 3, 365-377. DOI: [10.5802/crmath.48](#)
10. *Heisenberg uniqueness pairs for the Fourier transform on the Heisenberg group*, S. Ghosh and R. K. Srivastava, **Bull. Sci. Math.** Vol 166, February 2021, 102-941 DOI: [10.1016/j.bulsci.2020.102941](#)
11. *Benedicks-Amrein-Berthier theorem for the Heisenberg motion group*, S. Ghosh and R. K. Srivastava, **Bull. Lond. Math. Soc.** (in press). DOI: [arXiv:1904.04023](#)
12. *Uniqueness of the group Fourier transform on certain Lie groups*, A. Chattopadhyay, D. K. Giri and R. K. Srivastava, (submitted). DOI: [arXiv:1607.03832](#)
13. *Spherical means on Métivier groups and support theorem*, R. K. Dalai, S. Ghosh and R. K. Srivastava (submitted). DOI: [arXiv:2108.11744](#)
14. *Unbounded Weyl transforms on the Euclidean motion group and Heisenberg motion group*, S. Ghosh and R. K. Srivastava. (submitted). DOI: [arXiv:2106.15704](#)

15. *Injectivity of the spherical mean operator on Métivier Group*, R. K. Dalai and R. K. Srivastava. (submitted). DOI: [arXiv:2108.12729](https://arxiv.org/abs/2108.12729)
16. *Quaternion Weyl Transform and some uniqueness results*, R. K. Dalai, S. Ghosh and R. K. Srivastava (submitted). DOI: [arXiv:2108.12729](https://arxiv.org/abs/2108.12729)
17. *Heisenberg uniqueness pairs for the finitely many parallel lines with an irregular gap*, D. K. Giri and R. K. Srivastava, (submitted).
18. *Benedicks-Amrein-Berthier theorem for the quaternion Heisenberg group*, S. Ghosh and R. K. Srivastava, (under preparation).
19. *Sets of non-injectivity for the spherical means on the real hyperbolic spaces*, R. K. Srivastava (under preparation).