

Dr. Partha Sarathi Patra

CONTACT INFORMATION Assistant Professor
Department of Mathematics, Hijli College
PO Hijli Cooperative, Kharagpur
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RESEARCH INTERESTS **Harmonic Analysis**

EMPLOYMENT **Hijli College**

Assistant Professor, August 2020- Till date.

SRM University AP

Assistant Professor, August 2019- July 2020.

Indian Institute of Science Education and Research Bhopal

Post-doctoral Fellow, August 2018- August 2019.

EDUCATION **Indian Institute of Technology Hyderabad**, Telangana, India

Ph.D., Mathematics, 2013-2018 *Degree Awarded on: August 5 2018.*

- Thesis Title: *The Hermite Semigroup and Hardy's Theorem*
- Advisor: Dr. D Venku Naidu

PUBLICATIONS

1. Partha Sarathi, Patra; Venku Naidu, D Images of some subspaces of $L_2(R_m)$ under Grushin and Hermite semigroup. *J. Pseudo-Differ. Oper. Appl.* (2018) Volume 9, Issue 2, pp 247-264
<https://doi.org/10.1007/s11868-017-0192-1>
2. Partha Sarathi, Patra; Sivaramakrishnan, C.; Venku Naidu, D. Benedicks' theorem for the Weyl transform associated with the Heisenberg group. *Integral Transforms Spec. Funct.* 29 (2018), no. 6, 442-449.
<https://doi.org/10.1080/10652469.2018.1452921>
3. Partha Sarathi, Patra; Dogga, Venku Naidu. Hardy's theorem and rotation for Dunkl transform. *Complex Var. Elliptic Equ.* 66 (2021), no. 1, 71-83.
<https://doi.org/10.1080/17476933.2019.1704278>.
4. Patra, P.S., "A revisit to Hardy's theorem and rotations"
Communicated, Under review.

TEACHING EXPERIENCE Taught Linear Algebra and Complex Analysis for B.Tech students. Worked as Teaching Assistant for the following M.Sc courses at IIT Hyderabad :

| | |
|---|-------------------|
| Linear Algebra (Instructor: Dr. Sukumar Daniel) | For two semesters |
| Complex analysis (Instructor: Dr. Venku Naidu) | For one semester |
| Functional Analysis (Instructor: Dr. Venku Naidu) | For one semester |
| Measure Theory (Instructor: Dr. Tanmoy Paul) | For one semester |

- TALKS DELIVERED
- 1 Title: On the Images of some subspaces of $L^2(R^m)$ under Grushin semigroup.
6th Workshop on Fourier Analysis and Related Fields,
The Alfréd Rényi Institute of Mathematics of the Hungarian Academy of Sciences
and the Institute of Mathematics and Informatics
Pécs, Hungary, 24-31 August 2017.
 - 2 Title: The Hardys' Theorem and Rotation, Inhouse Symposium, 8-9 February 2019,
IISER Bhopal, India.

- CONFERENCES
AND WORKSHOPS
- 16th Discussion Meeting in Harmonic Analysis
IISER Bhopal Dec 16-19, 2019
 - 15th Discussion Meeting on Harmonic Analysis',
Indian Institute Science Bangalore Dec 18-21, 2017.
 - 20th Ramanujan Symposium International Conference on Fourier Analysis and Wavelets,
Ramanujan Institute for Advanced Study in Mathematics March 21-25, 2017.
 - Advanced Instructional school on " Harmonic Analysis",
KSOM, Kerala Dec 05-24, 2016.
 - Workshop on " Complex Geometry and Operator Theory"
ISI Bangalore Dec 01-03, 2015
 - International Workshop on Operator Spaces
university of Delhi, Delhi Dec 7-9, 2015.
 - Workshop in PDE and Fourier Analysis,
Indian Institute of Technology Kanpur Dec 08-20, 2014.
 - Workshop on Operator & Spectral Theory, Operator Algebraa, Non Commutative
Geometry,
KSOM, Kerala Feb 07-14, 2014.
 - Workshop on 'Functional Analysis and Operator algebras',
National Institute of Technology Karnataka June 2014.
 - Advance Instructional School on Lie groups,
IIT Bombay, Mumbai July 7-26, 2014.

SOME RELEVANT
INFORMATION

- Selected to receive NBHM postdoctoral fellowship 2018.
- Worked as PhD student representative in IIT Hyderabad 2017.
- Qualified NET and GATE exams.
- Worked in the organizing team in Mathematics summer camp for underprivileged
high school students 2016-18.