Aiyappan S

Assistant Professor, Department of Mathematics

Office: C 208/B; Tel. 2301 6620; Email: aiyappan@math.iith.ac.in; Homepage: https://math.iith.ac.in/people/faculty

Major Areas of Research

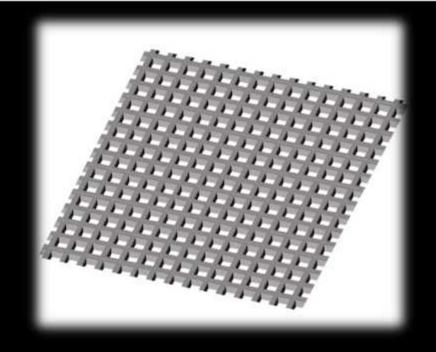
Homogenization Theoretical PDE Asymptotic Analysis

Major Research Facilities in the Group

Functional Analysis

Most significant Publications





1. S. Aiyappan, K. Pettersson: Homogenization of a locally periodic oscillating boundary. Appl. Math. Optim. 86 (2022), no. 2, Paper No. 14, 34 pp.

2. S. Aiyappan, A. K. Nandakumaran, Ravi Prakash: Semi-linear optimal control problem on a smooth oscillating domain. Commun. Contemp. Math. 22 (2020), no. 4, 1950029, 26 pp

3. S. Aiyappan, A. K. Nandakumaran, Ravi Prakash: Generalization of unfolding operator for highly oscillating smooth boundary domains and homogenization. Calc. Var. Partial Differential Equations 57 (2018), no. 3, Paper No. 86, 30 pp.



Amit Tripathi

Assistant Professor, C-442, Department of Mathematics

Phone No: +91-40-23016611, Institute Email: amittr@math.iith.ac.in

Webpage Link: https://sites.google.com/site/amittr/home

Major Areas of Research

Algebraic geometry and commutative algebra

Major Research Facilities in the Group

Theoretical work

Technology/Product Developed

Theoretical work



 \mathbb{P}^{5}





Arunabha Majumdar

Assistant Professor, Department of Mathematics

Email: arun.majum@math.iith.ac.in; Webpage link: Biostatistics Lab @ IITH (google.com)

Major Areas of Research

Statistical genomics, biostatistics, computational statistics

Major Research Facilities in the Group

Rigorous training in applied statistics, cloud computing access to UK Biobank, access to institute's computing servers

<u>R software packages developed</u> for genomic data analysis

CPBayes, eGST, MPGE

Biometrics Journal of the International Biometric Society

Original Article

A Novel Bayesian Semiparametric Algorithm for Inferring Population Structure and Adjusting for Case-Control Association Tests

Arunabha Majumdar, Sourabh Bhattacharya, Analabha Basu, Saurabh Ghosh 🕿

JOURNAL ARTICLE

A two-step approach to testing overall effect of gene-environment interaction for multiple phenotypes @

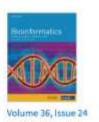
Arunabha Majumdar, Kathryn S Burch, Tanushree Haldar, Sriram Sankararaman, Bogdan Pasaniuc, W James Gauderman, John S Witte 🕿

Bioinformatics, Volume 36, Issue 24, 15 December 2020, Pages 5640–5648, https://doi.org/10.1093/bioinformatics/btaa1083



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్ भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad





Volume 36, Issue 24 15 December 2020

Balasubramaniam Jayaram

Professor, Department of Mathematics

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Major Areas of Research/Up to 3 major sponsored projects

- Approximate Reasoning
- Operations in Multi-valued Logic
- Role of Distances in High Dimensions
- S. Kumari and B. Jayaram, "<u>Measuring Concentration of</u> <u>Distances - An Effective and Efficient Empirical Index</u>", *IEEE Transactions on Knowledge and Data Engineering*, 29(2), pp. 373 - 386, 2017.
- M. Baczyński, B. Jayaram, S. Massanet, J. Torrens, "<u>Fuzzy</u> <u>Implications: Past, Present, and Future</u>", in: *J. Kacprzyk, W. Pedrycz (Eds.)*, Springer Handbook of Computational Intelligence, Springer, Berlin Heidelberg, pp. 183 - 202, 2015.
- B. Jayaram and F. Klawonn, "<u>Can unbounded distance</u> <u>measures mitigate the curse of dimensionality?</u>", *Int. Jl. of Data Mining, Modelling and Mgmt.*, 4 (4), pp. 361 - 383, 2012.







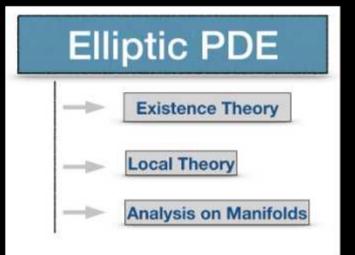
Bhakti Bhusan Manna

Assistant Professor, Department of Mathematics

Office: C-537.; Office Phone No.; 04023016610; Institute Email: <u>bbmanna@math.iith.ac.in;WEB: bbmanna@iith</u>

Major Areas of Research/Up to 3 major sponsored projects

- Nonlinear Partial Differential Equations
- Variational Methods
- Geometric Analysis
- **Most significant Publications**



 Manna, B. B.; Ruf, Bernhard; Sahoo, A. K.; Srikanth, P. N. Hopf reduction and orbit concentrating solutions for a class of superlinear elliptic equations. J. Funct. Anal. 282 (2022)

2. Sahoo, Alok K ; Manna, Bhakti B, Existence of sign-changing solutions to a Hamiltonian elliptic system in R^N. J. Math. Anal. Appl. 517 (2023)

3. <u>Clapp. Mónica; Manna, Bhakti Bhusan</u> Double- and single-layered sign-changing solutions to a singularly perturbed elliptic equation concentrating at a single sphere. <u>Comm. Partial Differential Equations</u> 42 (2017)





Deepak Kumar Pradhan

Asst Professor, Lab Name, Department of Mathematics

Office Room No C-312/B; Ph (O): 040-2301-6621; email: dkpradhan@math.iith.ac.in; Webpage Link

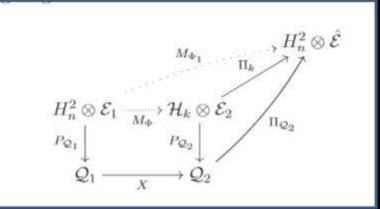
Major Areas of Research

Operators on Reproducing kernel Hilbert spaces, Multivariable operator theory, Functions in complex variables.

INSPIRE Faculty Fellow Research Grant: Interpolation problems in reproducing kernel Hilbert Spaces.

Some Significant Publications

- Multishifts on directed Cartesian products of rooted directed trees. <u>Dissertationes Math.</u> 527 (2017), 102 pp.
- Commutant lifting and Nevanlinna-Pick interpolation in several variables. <u>Integral Equations Operator Theory</u> 92 (2020).
- Partially isometric Toeplitz operators on the polydisc. <u>Bu</u> <u>Math. Soc. 54 (2022)</u>.







Dhriti Sundar Patra

Assistant Professor, Department of Mathematics

Office Room No.: C-308(C), Email: dhriti@math.iith.ac.in

Major Areas of Research/Up to 3 major sponsored projects

- Differential Geometry
- Riemannian Geometry
- Ricci Solitonts, Quasi-Einstein structure, Critical point equation, Fischer-Marsden conjecture
- Major Research Facilities in the Group
- Solving some open problems in collaboration with some international geometers

Technology/Product Developed/Up to 3 most significant Publications

1. Dhriti Sundar Patra (2022): Some characterizations of ρ-Einstein solitons on Sasakian manifolds, Canadian Mathematical Bulletin, 65, 1036--1049. Cambridge University Press.

2. Shubham Dwivedi and **Dhriti Sundar Patra** (2022): Some results on almost *-Ricci-Bourguignon solitons, Journal of Geometry and Physics, 178, 104519. Elsevier

3. Dhriti Sundar Patra and Amalendu Ghosh (2021): On Einstein-type contact metric manifolds, Journal of Geometry and Physics, 169, 104342. Elsevier



Jyotirmoy Rana

Assistant Professor, Department of Mathematics

Office Room No.: A-717(A), Office Phone: (040) 2301 - 6614, Email: jrana@math.iith.ac.in

Major Areas of Research/Up to 3 major sponsored projects

- **Bio-Fluid Mechanics**
- Solute Dispersion and Oxygen Transport
- **Quantum Mechanics**
- Homotopy Analysis Method

Major Research Facilities in the Group

- Established computational facilities for 0 research work
- A workstation for the computationally intensive component

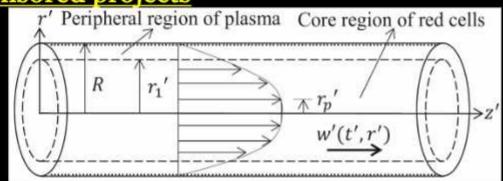


Fig: Schematic diagram of the blood flow model in a small vessel. r': radial direction, z': axial direction, R: radius of the vessel, r'_1 : radius of core region, r'_n : radius of plug flow region, w'(t', r'): axial velocity of the blood in the vessel.

Technology/Product Developed/Up to 3 most significant Publications

1. Jyotirmoy Rana and P.V.S.N. Murthy (2016): Solute dispersion in pulsatile Casson fluid flow in a tube with wall absorption, Journal of Fluid Mechanics 793, 877-914, Cambridge University Press.

2. Jyotirmoy Rana and P.V.S.N. Murthy (2017): Unsteady Solute Dispersion in Small Blood Vessels using a Two-Phase Casson Model, Proceedings of the Royal Society of London A: Mathematical, Physical and Engineering Sciences 473, 20170427, The Royal Society.

3. Prosanjit Das, Sarifuddin, Jyotirmoy Rana, and Prashanta Kumar Mandal (2022): Unsteady solute dispersion in the presence of reversible and irreversible reactions, Proceedings of the Royal Society A 478, 2264, 20220127. The Royal Society.





P A L Narayana Professor ,Department of Mathematics

Office Room No.:C#502; Office Phone No.: 6603; Mobile (9949287368);

Institute Email.: ananth@math.iith.ac.in;Webpage Link.: https://people.iith.ac.in/ananth/



Major Areas of Research/Up to 3 major sponsored projects

Fluid Mechanics, Convection in Porous Media, Hydrodynamic Stability

Major Research Facilities in the Group: Nil

Up to 3 most significant Publications

 Gautam Kumar, PAL Narayana, KC Sahu.: Linear and nonlinear thermosolutal instabilities in an inclined porous layer. Proc. Royal Soc. A (2020) Vol. 476 Article ID: 20190705

 Gautam Kumar & PAL Narayana.: On the stability of carbon sequestration in an anisotropic horizontal porous layer with a first-order chemical reaction. Proc. Royal Soc. A (2019) Vol. 475 Article ID: 20180365

3. JFL Duval, J Merlin, & **PAL Narayana**.: Electrostatic interactions between diffuse soft multi-layered (bio) particles: beyond Debye–Hückel approximation and Deryagin formulation. **Phy Chem Chem Phy** (2011) Vol.13, pp.1037-1053.



Mrinmoy Datta

Assistant Professor, Department of Mathematics

Office Room No. B315 ; Office Phone No. 04023016674; Institute Email: mrinmoy.datta@math.iith.ac.in; Webpage Link: https://sites.google.com/math.iith.ac.in/mrinmoy?pli=1



- Algebraic geometry, Linear Error-correcting codes, Combinatorics
- (Sponsored Project) SERB Start Up Research Grant

Major Research Facilities in the Group

MAGMA, (a software for mathematical computations).

Technology/Product Developed/Up to 3 most significant Publications

- <u>1. P. Beelen</u>, M. <u>Datta</u>, and M. <u>Homma</u>, A proof of Sørensen's conjecture on Hermitian surfaces. <u>Proc. Amer. Math. Soc.</u> <u>149</u> (2021), no. 4, 1431–1441.
- <u>2. P. Beelen</u>, and M. <u>Datta</u>, Generalized Hamming weights of affine Cartesian codes. <u>Finite Fields Appl.</u> <u>51 (2018)</u>, 130–145.
- 3. <u>3. M. Datta</u>, and S. <u>Ghorpade</u>, Number of solutions of systems of homogeneous polynomial equations over finite fields. <u>Proc. Amer. Math. Soc.</u> <u>145 (2017)</u>, no. <u>2</u>, 525-541.





Neeraj Kumar

Assistant Professor, Department of Mathematics

Office Room No. C531; Office Phone No. (040)2301 6613; neeraj@math.iith.ac.in; Webpage Link

Major Areas of Research/Up to 3 major sponsored projects

Commutative Algebra, Combinatorial Commutative Algebra MATRICS Grant from SERB - Koszul Algebras and Diagonal Subalgebras

Major Research Facilities in the Group

Research is theoretical in nature

Technology/Product Developed/Up to 3 most significant Publications

Diagonal subalgebras of residual intersection (with H. Ananthnarayan and Vivek Mukundan, Proc. Amer. Math. Soc. 148 (2020), 41-52.

Koszul property of diagonal subalgebras, J. Commut. Algebra, 6 (2014), 385-406.



Proceedings of the American Mathematical Society

Published by the American Mathematical Society, the Proceedings of the American Mathematical Society (PROC) is devoted to research articles of the highest quality in all areas of pure and applied mathematics.

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Diagonal subalgebras of residual intersections HTML and a powerst by INS StatMaker O

by H. Ananthnarayan, Neeraj Kumar and Vivek Mukundan PDE Proc. Amer. Math. Soc. 148 (2020), 41-52 Request permission



Pradipto Banerjee

Associate Professor, Department of Mathematics

Phone No. 9441387126; Institute Email: pradipto@math.iith.ac.in; Webpage Link

Major Areas of Research

International of Accession Theory

International of Accession of Ac



Two Individual

On an ap	plication of the alc-theorem for polynomials in the appareties neighbout problem
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4	Philippine Bases and Oscilewood (g)
L. Berry	advection. Let $f(x) = \sum_{i=1}^d a_i x^i$ where $a_i \in \mathbb{Z}$ for all $j = 1$ where
	$\delta(P) = \sum_{i=1}^{n} a_i _i$
	mand the post-loss (see [1]) of downing that there is no phonon in 5 B and that for every image polynomial (12), there is no by

Major Research Facilities in the Group

Technology/Product Developed



Iswar Mahato and M. Rajesh Kannan, On the eccentricity matrices of trees: Inertia and spectral symmetry, Discrete Mathematics, Volume 345, Issue 11, November 2022, 113067.

M. Rajesh Kannan

Assistant Professor , Dept. of Mathematics Office Room No. C-213(G); Office Phone No. (040) 2301 - 6622;

Email: rajeshkannan@math.iith.ac.in ; Webpage Link : https://people.iith.ac.in/rajeshkannan/

Major Areas of Research:

Spectral Graph Theory, Matrix Theory and Combinatorics.

Major sponsored projects:

- Core Research Grant (SERB-DST)
- Mathematical Research Impact-Centric Support (SERB-DST)
- Early Career Research (ECR) Award (SERB-DST)
- International Travel Grant (SERB-DST)

Recent Publications

M. Rajesh Kannan, Shivaramakrishna Pragada and Hitesh Wankhede, Constructing cospectral graphs by unfolding non-bipartite graphs, Discrete Applied Mathematics, Volume 357 (2024) 264-273.

Aniruddha Samanta and M. Rajesh Kannan, Bounds and extremal graphs for the energy of complex unit gain graphs, Linear Algebra and its Applications (2024).

M. Rajesh Kannan and Shivaramakrishna Pragada, Signed spectral Turan type theorems, Linear Algebra and its Applications, 663(2023), 62-79.







Ramesh G

Professor, Department of Mathematics

040-2301-6604, +918500054018, rameshg@math.iith.ac.in, https://people.iith.ac.in/rameshg/

Major Areas of Research

Functional Analysis, Operator Theory

Major Research Facilities in the Group

Pure Mathematics Technology/Product Developed

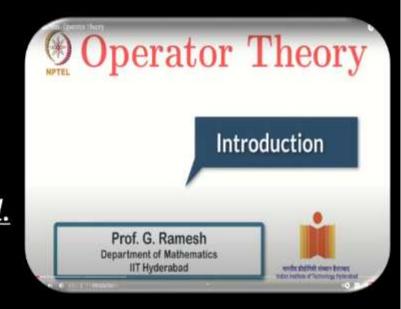
1. <u>Ramesh, G.; Sequeira, Shanola S.</u>

Absolutely norm attaining Toeplitz and absolutely minimum attaining Hankel operators. *J. Math. Anal.* <u>Appl. 516 (2022), no. 1</u>, Paper No. 126497, 12 pp. 2. <u>Bala, Neeru; Ramesh, G.</u> A representation of hyponormal absolutely norm attaining operators. <u>Bull. Sci. Math. 171 (2021)</u>, Paper No. 103020, 15 pp.

3. Ramesh, G., Sudip Ranjan, B., Venku Naidu, D.: A Representation of compact CC-normal operators. Linear Multilinear

Algebra(2022). <u>https://doi.org/10.1080/03081087.2</u> 022.2065234







Sameen Naqvi

Assistant Professor GR1, Department of Mathematics

C-529; 8172913823; sameen@math.iith.ac.in; https://naqvisameen26.wixsite.com/website

Major Areas of Research/Up to 3 major sponsored projects

Reliability Theory Applied Statistics Stochastic orders Major Research Facilities in the Group

Statistical Reliability Virtual Lab - Published a research paper with two of my lab students: Srujana (BTech MnC) and Dhananjay (MSc MnC).



Machine Learning vs. Survival Analysis Models: a study on right censored heart failure data

8. Srujana, Dhananjay Verma, and Sameen Nagvi 🙃

Department of Mathematics, Indian Institute of Technology Hyderabad, Hyderabad, India

Machine Learning Models are known to understand the introducer of the data well, but native MI, models carried be used in time-to-event analysis due to temporing. In this paper, we explore the use of Machine Learning the to introlong is the paper, we explore the use of Macron Letting Models in the field of Journal Analysis using right consored Hear Fellue Clerical heards Dataset. For the surpose, we find identify the too meet important features responsible for death rise to heart failure aring Security Feature Clerication and thes see how Macrone Letting models can be adapted to emprove the time-to-event analysis outcomes. To deal with this, Mathere Learning Models are motified using the techniques meme Probability of Cemoring Weighting BPCKS and PCW Bagging and are trained using the processed dataset disregate versus serviced evaluate vodels. Area Under the sene dependent ROC (AUC) is used as a perform non-metric. The results reveal that the average AUC value for jurvius Include Models in 0.51 while that of Machine Learning Models processed using IPCW increased to 0.80, and these processed using IPCW Regging nonesset by 0.63. This reflects that Machine Learning models subsection luvinal Analysis models is the case of time-to-issent enalysis of doht can , and herein, are better indicators of eak of heart doesn

ABTICLE MILTORY Received 3 September 2021 Accepted 28 Wareh 2022

STREET, STREET Substal analysis: Machine Louristic IPCH **PCW henerg**

Technology/Product Developed/Up to 3 most significant Publications

1. Naqvi, S., Ding, W. and Zhao, P. (2021). Stochastic comparison of parallel systems with Pareto components. Probability in the Engineering and Informational Sciences, 1-13. 2. Srujana, B, Dhananjay, V. and Naqvi, S. (2022) Machine Learning vs Survival Analysis Models: a study on right censored heart failure data. Communications in Statistics-Simulation and Computation, 1-18.

3. Teega, V. and Naqvi, S. (2023). Preservation of mean inactivity time ordering for coherent systems with independent and dependent components. Submitted after first revision in Journal of Applied Probability.





Sayantee Jana Assistant Professor G-I, Department of Mathematics

Office Room No.; Office Phone No.; Mobile (optional); Institute Email; Webpage Link: A 717-B, sayantee,jana@math.iith.ac.in

Major Areas of Research/Up to 3 major sponsored projects

- 1. Spatio-temporal modelling (was funded by Fields)
- 2. Multivariate skewed distributions (funded by SICI)
- 3. Generalized MANOVA model (funded by SICI)
- 4. Adaptive designs (applying for funding)
- 5. Data Mining (funded consultancy)

Major Research Facilities in the Group

128 Gb DDR5 i9 12 core CPU

2. will purchase two more CPUs of 64gb i9

Technology/Product Developed/Up to 3 most significant Publications

Mukherjee, A., Coad, D.S., & Jana, S.* Covariate-Adjusted Response-Adaptive Designs for Censored Survival Responses. Under Review in *Journal of Statistical Planning and Inference*. Jana S., Balakrishnan N. and Hamid J. (2018). "Estimation of the parameters of the Extended Growth Curve Model under Multivariate Skew Normal distribution". *Journal of Multivariate Analysis, 166,* 111-128.





C S Sastry

Professor, Department of Mathematics



503/Acad Block C.; 091-40-23016602; csastry@math.iith.ac.in; https://people.iith.ac.in/csastry/index.html

Major Areas of Research/Up to 3 major sponsored projects:

Wavelets

Sparse-Optimization Theory

Inverse Problems

Major Research Facilities in the Group

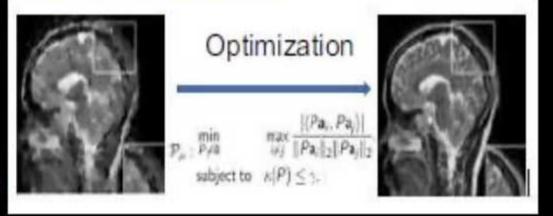
Advanced computing system Most significant Publications

"Deterministic Compressed Sensing matrices: Construction via Euler squares and applications," *IEEE Tran. on Signal Processing*, Vol. 64, 3566-3575, 2016, (with R. R. Naidu, P.V. Jampana)

"Construction of highly redundant incoherent unit norm tight frames as a union of orthonormal bases," *Journal of Complexity*, Vol. 54, 2019 (with P. Sasmal and P. Jampana).

"Analysis of general weights in weighted l1-2- minimization through applications," Digital Signal Processing, 2023 (with K. Z. Najiya)





D Sukumar

Associate Professor, Analysis, Department of Mathematics

040 23016606; suku@math.iith.ac.in; https://people.iith.ac.in/suku/

<u>Functional Analyis, Banach algebra, Numerical Linear</u> <u>Algebra</u>

Multiplicative functions and almost multiplicative functions in the context of generalized spectrum.

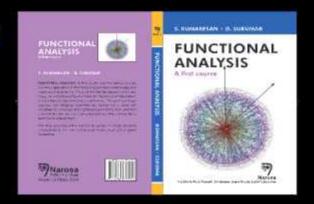
Major Research Facilities in the Group

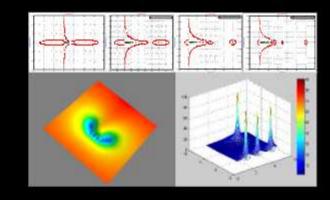
Strong and committed group that encourages discussion and exploration.

Technology/Product Developed

Computing the pseudo-spectra and condition-spectra using the existing mathtools as well as open tools for various possible areas.









Tanmoy Paul

Associate Professor, Department of Mathematics

Office:A-301.; 0:040 2301 6605; M:9573706402; Email:tanmoy@math.iith.ac.in;

Major Areas of Research

Functional Analysis, Analysis on Banach spaces Projects completed: 1. DST Fast Track Young Scientist Project 2. SERB project Matrics

Candidates will gain skills to analyze research problems in a systematic manner through its geometrical viewpoints

3 most significant Publications:

- (a) S. Daptari, T. Paul, Uniqueness of Hahn-Banach extension and some of its variants, Advances in Operator Theory 7 (3), 1-19 (2022)
- (b)CR Jayanarayanan, T. Paul, Strong Proximinality and intersection properties of balls, J. Math. Anal. Appl., 426, 1217-1231 (2015)

(c) T. Paul, Various notions of best approximation properties in spaces of Bochner integrable functions, Advances of Operator Theory 2, 59-77(2017)



भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad Narasimha Kumar, Associate Professor, Number Theory Lab, Department of Mathematics

C-547; 040-2301-6608; narasimha@math.iith.ac.in; https://sites.google.com/site/chnarasimhakumar/home

Major Areas of Research/Up to 3 major sponsored projects

Arithmetic Geometry, Number Theory

Major Research Facilities in the Group

Technology/Product Developed/Up to 3 most significant Publications

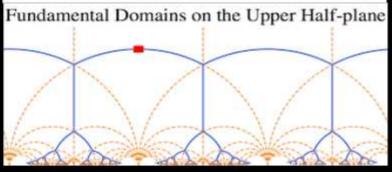
- The structure of Drinfeld modular forms of level \$\Gamma_0(T)\$ and applications (joint with Tarun Dalal). To appear in the Journal of Algebra
- On generation of the coefficient field of a primitive Hilbert modular form by a single Fourier coefficient (joint with Satyabrat Sahoo). To appear in the Canadian Mathematical Bulletin.
- Ribet's conjecture for Eisenstein maximal ideals of cube-free level (joint with Debargha Banerjee, Dipramit Mazumdar).





The structure of Drinfeld modular forms of level $\Gamma_0(T)$ and applications

arun Dalal (9), Narasimha Kumar (8)







D. Venku Naidu

Associate Professor, Department of Mathematics C-544, +918330913693, venku@math.iith.ac.in, https://people.iith.ac.in/venku/

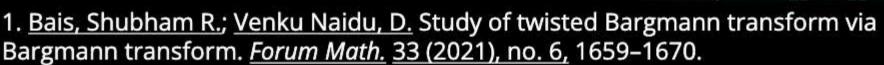
Major Areas of Research

Functional Analysis, Harmonic Analysis

Major Research Facilities in the Group

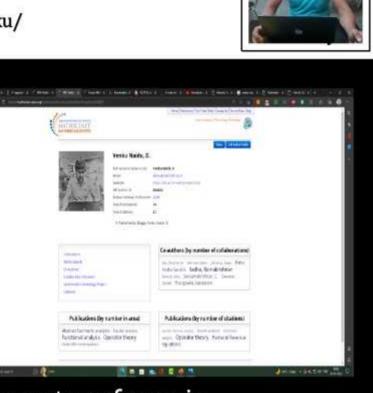
Pure Mathematics

Technology/Product Developed



2. <u>Sarathi Patra, Partha; Dogga, Venku Naidu</u> Hardy's theorem and rotation for Dunkl transform. <u>Complex Var. Elliptic Equ.</u> 66 (2021), no. 1, 71–83.

3. Ramesh, G., Sudip Ranjan, B., Venku Naidu, D.: Cartesian decomposition of Cnormal operators. Linear Multilinear Algebra(2022). https://doi.org/10.1080/03081087.2021.1967847



भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad



Vikas S. Krishnamurthy

Assistant Professor, Department of Mathematics

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Major Areas of Research/Up to 3 major sponsored projects

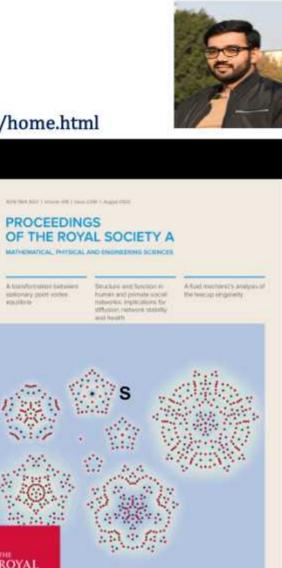
Vortex dynamics, applied mathematics, fluid dynamics, applied complex analysis

Technology/Product Developed/Up to 3 most significant Publications

- Krishnamurthy, V., Wheeler, M., Crowdy, D., & Constantin, A. (2021). Liouville chains: New hybrid vortex equilibria of the two-dimensional Euler equation. Journal of Fluid Mechanics, 921, A1. doi:10.1017/jfm.2021.285
- Krishnamurthy VS, Wheeler MH, Crowdy DG, Constantin A. (2020). A transformation between stationary point vortex equilibria. Proc. R. Soc. A 476: 20200310.

http://dx.doi.org/10.1098/rspa.2020.0310

 D. G. Crowdy and V. S. Krishnamurthy. Speed of a von Kármán point vortex street in a weakly compressible fluid. Phys. Rev. Fluids, 2(11):114701, 2017. http://dx.doi.org/10.1103/PhysRevFluids.2.114701





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