

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Day 1 : December 27, 2024

8.00 – 8.45	8.45 – 9.15	9.20 – 10.20	10.20 – 10.50	10.50 – 11.50	12.00 – 1.00	1.00 – 2.30	2.30 – 3.30	3.30 – 4.00	4.00 – 5.00	5.10 – 6.10
Registration	Inauguration	Plenary 1	High Tea	ST 1,2	ST 3,4	Lunch	CT 1-3	Tea	Plenary 2	GBM

Day 2 : December 28, 2024

9.15 – 10.15	10.15 – 10.45	10.45 – 11.45	11.55 – 12.55	12.55 – 2.20	2.20 – 3.20	3.20 – 3.50	3.50 – 4.50	5.00 – 6.00
Plenary 3	Tea	ST 5,6	ST 7,8	Lunch	ST 9,10	Tea	CT 4-6	Public lecture

Day 3 : December 29, 2024

9.15 – 10.15	10.15 – 10.45	10.45 – 11.45	11.55 – 12.55	12.55 – 2.20	2.20 – 3.40	3.40 – 4.10	4.15 – 5.15	5.15 – 5.45
ST 11, 12	Tea	ST 13, 14	ST 15, 16	Lunch	CT 7 - 10	Tea	Plenary 4	Valedictory

ST: *Symposium talk.*

CT: *Contributed talk.*

GBM: *General body meeting*

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Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Plenary / Public Talks

Venue: Auditorium, Block I

Talk	Day	Date	Time	Speaker	Title of the talk
Plenary 1 Chair: E K Narayanan	1	27/12/2024	9.20 am - 10.20 am	Maithilly Ramaswamy (TIFR - CAM, Bengaluru)	PDE through Fourier Analysis
Plenary 2 Chair: Rajeswari Seshadri	1	27/12/2024	4.00 pm - 5.00 pm	Nikita Agarwal (IISER, Bhopal)	Symbolic Dynamics, Combinatorics on Words and Escape Rate
Plenary 3 Chair: B Sury	2	28/12/2024	9.15 am - 10.15 am	Anish Ghosh (TIFR, Mumbai)	Shrinking targets: geometry, ergodic theory and number theory
Public Chair: Jugal Kishore Verma	2	28/12/2024	5.00 pm - 6.00 pm	B Sury (ISI, Bangalore)	A Panoramic view of the state of the Art in Mathematics
Plenary 4 Chair: S Ponnusamy	3	29/12/2024	3.50 pm - 4.50 pm	Harish Seshadri (IISc, Bengaluru)	Comparison geometry of Kahler manifolds

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December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Algebra

Venue: Classroom No. 256, Block II, Third Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
A.V. Jayanthan	10.50 am – 11.20 am	Sudhir Ghorpade (IIT Bombay)	Projective Reed-Muller Codes and Pure Resolutions
	11.20 am – 11.50 am	Anuradha Sharma (IIT Delhi)	Some new constructions of optimal and almost optimal locally repairable codes
Anuradha Sharma	12.00 pm – 12.30 pm	A.V. Jayanthan (IIT Madras)	On the v -number of binomial edge ideals of some classes of graphs
	12.30 pm – 1.00 pm	Mousumi Mandal (IIT Kharagpur)	On the Higher Hilbert Coefficients and the depth of the associated graded ring

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December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Algebra

Venue: Classroom No. 256, Block II, Third Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Sudhir Ghorpade	10.45 am – 11.15 am	Ananthnarayan Hariharan (IIT Bombay)	Purity of Syzygies of Associated Graded Modules
	11.15 am – 11.45 am	Rajiv Kumar (IIT Jammu)	Extremal rays of Betti cones over Fibre product
Arindam Banerjee	11.55 am – 12.25 pm	Neeraj Kumar (IIT Hyderabad)	Almost Complete Intersections: Regularity of powers and Rees algebra
	12.25 pm – 12.55 pm	Parangama Sarkar (IIT Palakkad)	Asymptotic behavior of v-number of filtrations of ideals
Ananthnarayan H.	2.20 pm – 2.50 pm	Ambily A.A. (CUSAT)	Elementary subgroups of orthogonal groups
	2.50 pm – 3.20 pm	Mrinal Kanti Das (ISI Kolkata)	Some open problems

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
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Symposium Talks – Algebra

Venue: Classroom No. 256, Block II, Third Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Indrantha Sengupta	9.15 am - 9.45 am	Ananya Pal (ISI Kolkata)	On Embedding of linear hypersurfaces and the Zariski Cancellation Problem
	9.45 am - 10.15 am	Surjeet Kour (IIT Delhi)	Coalgebra, Comodule and (Co)homology theories
Indranath Sengupta	10.45 am - 11.15 am	Prosenjit Das (IISST Trivandrum)	An <u>Epimorphism</u> Problem of <u>Sathaye</u>
	11.15 am - 11.45 am	Arindam Banerjee (IIT Kharagpur)	Castelnuovo-Mumford Regularity and Combinatorics
Parangama Sarkar	11.55 am - 12.25 pm	Dipankar Ghosh (IIT Kharagpur)	Complexity and curvature of (pairs of) Cohen-Macaulay modules, and their applications
	12.25 pm - 12.55 pm	Shreedevi Masuti (IIT Dharwad)	Hilbert functions of Artinian local level K-algebras

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
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Contributory Talks – Algebra

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 254, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
A.V. Jayanthan	Jebasingh R (IISER Kolkata)	On vanishing of the Euler cycles under sub integral extensions
	Shruti Priya (IIT Kharagpur)	Bounds on the Castelnuovo-Mumford regularity
	Chaithra B J (MIT, Manipal)	On radicals in hyperrings

Venue: Classroom No. 255, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Prosenjit Das	Suraj Kumar (IIT Delhi)	Linearly presented ideals and $(G_{\{d-2\}})$ condition
	Gayathry Pradeep (CUSAT)	Equality of DSER elementary orthogonal group and Eichler-Siegel-Dickson transvection group
	Dev Karan Singh (MNNIT Allahabad)	Tensor square and isoclinic extensions of multiplicative Lie algebras

Venue: Classroom No. 256, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Neeraj Kumar	Jitender (MNNIT Allahabad)	Majid algebra structure on division algebras
	Astha Agrawal (IISc Bangalore)	Additive one-rank hull codes over finite fields
	Tushar Singh (MNNIT Allahabad)	Characterization of s-Artinian rings

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Algebra

Day 2

Date: 28/12/2024

Time 3.50 pm – 4.50 pm

Venue: Classroom No. 254, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Mousomi Mandal	Theophilus Gera (Sardar Vallabhbhai National Institute of Technology)	Modules with descending chain conditions on principal ideals
	Prativa Biswas (IIT Kharagpur)	Asymptotic behaviour and stability index of v-numbers of graded ideals
	Samarendra Sahoo (IIT Bombay)	Quasi-pure resolutions and some lower bounds of Hilbert coefficients of Cohen-Macaulay modules

Venue: Classroom No. 255, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Ambily A.A.	Anuj Kumar Bhagat (IIT Delhi)	Cyclic locally recoverable LCD codes with the help of cyclotomic polynomials
	Ankit Yadav (IIT Delhi)	ACD codes and cyclic codes over $\mathbb{Z}_2\mathbb{R}_k$
	Ritesh Kumar Pandey (IIT Kanpur)	Weyl modules for twisted toroidal Lie algebras

Venue: Classroom No. 256, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Arindam Banerjee	Praveen Manju (IIT Delhi)	Twisted derivations of group algebras with coding theory applications
	Vidya Sagar (IISc Bangalore)	Linear Codes with Low-Dimensional Hull
	Deivanai Jaisankar (Shiv Nadar University Chennai)	Generalized m-polar fuzzy outerplanar graphs and its application in social network

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December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Algebra

Day 3

Date: 29/12/2024

Time 2.20 pm – 3.40 pm

Venue: Classroom No. 254, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Ananthnarayan H.	Nupur Patanker (IISc Bangalore)	Next-to-minimal weight of Toric codes defined over hypersimplices
	Om Prakash (IIT Bombay)	Type of finite-complement submonoids of an affine cone
	Shashi Ranjan Sinha (IIT Hyderabad)	On a relative dependency formula

Venue: Classroom No. 256, Block II, Third Floor (Parallel Session)

Chair	Speaker	Title of the talk
Dipankar Ghosh	Javadekar Omkar Deepak (IIT Bombay)	Linear Quotients of Connected Ideals of Graphs
	Meghana Bhat (IIT Dharwad)	Symmetric decomposition of the Hilbert function of an m-Primary ideal
	Akanksha (IIT Delhi)	Generalizations of cyclic codes over product rings
	Mansi Goyal (IIT Roorkee)	Computation Friendly Multi-key Fully Homomorphic Encryption without Ciphertext Extension Algorithm

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Algebraic Geometry

Venue: Classroom No. 002, Block I, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Pranav Pandit	10.50 am - 11.20 am	Poornapushkala Narayan (Madras School of Economics Chennai)	Lazarsfeld-Mukai bundles and parabolic structures
	11.20 am - 11.50 am	Anoop Singh (IIT(BHU) Varanasi)	On the moduli space of Lie algebroid connections over a compact Riemann surface
Mainak Poddar	12.00 pm - 12.30 pm	Sudarshan Gurjar (IIT Bombay)	Eilenberg MacLane surfaces in Algebraic Geometry
	12.30 pm - 1.00 pm	Pranav Pandit (ICTS-TIFR Bengaluru)	Towards a categorical Donaldson-Uhlenbeck-Yau correspondence

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Algebraic Geometry

Venue: Classroom No. 002, Block I, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Anoop Singh	10.45 am - 11.15 am	Parvez Rasul (IIT Bombay)	Irreducibility of some Quot schemes on Nodal curves
	10.15 am - 11.45 am	Sarpita Ray (Barclays Mumbai)	The topological shadow of F1-geometry: congruence spaces
Sudarshan Gurjar	11.55 am - 12.25 pm	Arijith Mukherjee (IIT Madras)	Multi Symmetric products of curves and their relevance to the matrix divisors.
	12.25 pm - 12.55 pm	Arijith Dey (IIT Madras)	Brauer group of moduli spaces.
Arijith Dey	2.20 pm - 3.20 pm	Mainak Poddar (IISER Pune)	Equivariant bundles on toric DM stacks
	2.20 pm - 3.20 pm	Jyoti Dasgupta (IIT Dhanbad)	Equivariant Vector Bundles on complexity-one T-varieties and Bruhat-Tits buildings

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Algebraic Geometry

Venue: Classroom No. 002, Block I, Ground Floor

Day 3

Date: 29/12/2024

Talk	Time	Speaker	Title of the talk
Samarpita Ray	9.15 am – 9.45 am	Bivas Khan (CMI, Chennai)	Tropical Vector Bundles
	9.45 am – 10.15 am	Pavan Adroja (IIT Gandhinagar)	On certain Tannakian fundamental group schemes
Mandira Mondal	10.45 am – 11.15 am	Ashima Bansal (IISER, Tirupati)	The Nagata Conjecture over characteristic zero fields
	11.15 am – 11.45 am	Gopinath Sahoo (TIFR Mumbai)	Tensor t -structures on the derived categories and perversity functions
Poornapushkala Narayan	11.55 am – 12.25 pm	Sreenanda SB (University of Hyderabad)	Application of Polynomials that Exactly Counts Double Exponential
	12.25 pm – 12.55 pm	Mandira Mondal (University of Hyderabad)	Polynomial invariant rings of finite groups

**39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
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Complete Schedule

**Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074**

Contributory Talks – Algebraic Geometry

Day 3

Date: 29/12/2024

Time 2.20 pm - 3.40 pm

Venue: Classroom No. 002, Block I, Ground Floor

Chair	Speaker	Title of the talk
Archana Subhash Morye	Aditya Subramaniam (Manipal Institute of Technology Manipal)	Algebraic properties of binomial edge ideals of Levi graphs associated with curve arrangements

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Complex Analysis

Venue: Classroom No. 225, Block II, First Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Amar Deep Sarkar	10.50 am – 11.20 am	Toshiyuki Sugawa (Tohoku University Japan)	Hypergeometric functions and Hausdorff moment sequences
	11.20 am – 11.50 am	Purvi Gupta (IISc Bengaluru)	A characterization of rational convexity in Stein and projective manifolds
S Ponnusamy	12.00 pm – 12.30 pm	Md. Firoz Ali (NIT Durgapur)	The Pre-Schwarzian and Schwarzian norm of harmonic and logharmonic functions
	12.30 pm – 1.00 pm	Vikramjeet Singh Chandel (IIT Kanpur)	Continuous extension of biholomorphisms using the geometry of horospheres

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Complex Analysis

Venue: Classroom No. 225, Block II, First Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Toshiyuki Sugawa	10.45 am – 11.45 am	Gautam Bharali (IISc Bengaluru)	The squeezing function: exact computations and a new application
	10.45 am – 11.45 am	Bappaditya Bhowmik (IIT Kharagpur)	Criteria for quasiconformal extensions of certain classes of functions
Bappaditya Bhowmik	11.55 am – 12.25 pm	P. Muthukumar (IIT Kanpur)	Automorphisms of subalgebras of bounded analytic functions
	12.25 pm – 12.55 pm	Sushil Gorai (IISER Kolkata)	Polynomial convexity of the closure of certain pseudoconvex domains
Gautam Bharali	2.20 pm – 2.50 pm	Sanjeev Singh (IIT Indore)	On starlikeness of regular Coulomb wave functions
	2.50 pm – 3.20 pm	Jugal Kishore Prajapat (Central University Rajasthan)	A family of analytic functions defined by differential inequality and its Applications

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Complex Analysis

Venue: Classroom No. 225, Block II, First Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Sushil Gorai	9.15 am – 9.45 am	Vasudevarao Allu (IIT Bhubaneswar)	Landau-Bloch type theorem for elliptic and quasiregular harmonic mappings
	9.45 am – 10.15 am	Vibhuti Arora (NIT Calicut)	Bohr-Rogosinski type inequalities for concave univalent functions
Vikramjeet Singh Chandel	10.45 am – 11.15 am	Amar Deep Sarkar (IIT Bhubaneswar)	Visibility of the Kobayashi Distance and Applications
	11.15 am – 11.45 am	Sivaguru (TIFR-CAM Bengaluru)	Holomorphic extension of a class of CR functions near a CR singularity
Vasudevarao Allu	11.55 am – 12.25 pm	R. Vijayakumar (NIT Calicut)	Refinements in Bohr-Type Inequalities for Analytic Functions on Shifted Disks
	12.25 pm – 12.55 pm	Rakesh Kumar Parmar (Pondicherry University)	On Extended Exton's Triple and Horn's Double Hypergeometric Functions and Related Bounds

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Complex Analysis

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 225, Block II, First Floor (Parallel Session)

Chair	Speaker	Title of the talk
Sanjeev Singh	Balakrishnan K P (Madras Christian College)	Landau's theorem for certain type of biharmonic mappings
	Jocelyn Johnson (Madras Christian College)	Riesz - Fejer inequalities for a differential operator of a harmonic function
	C. Infantina Sharmi (Madras Christian College)	Hall's conjecture for length of images of ray under a class of analytic univalent mappings

Venue: Classroom No. 224, Block II, First Floor (Parallel Session)

Chair	Speaker	Title of the talk
Vibhuti Arora	Kartika Verma (Madras Christian College)	Properties of a subclass of meromorphic univalent functions with a non-zero pole inside the unit disk
	S. Sunil Varma (Madras Christian College)	On certain properties of generalized Goodman - Ronning type harmonic univalent starlike mappings
	Shankey Kumar (IIT Madras)	Revisit of multi-dimensional bohr radius

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Complex Analysis

Day 2

Date: 28/12/2024

Time 3.50 pm - 4.50 pm

Venue: Classroom No. 225, Block II, First Floor (Parallel Session)

Chair	Speaker	Title of the talk
Md. Firoz Ali	Abraham Dinesh R (Rathinam College of Arts and Science)	Mandelbrot sets in the development of modern mathematics
	Jasbir Parashar (IIT Ropar)	On some subclasses of harmonic functions defined by the dilatation being the square of an analytic function
	Husna V (Presidency University)	Results on difference operators of meromorphic and entire functions sharing rational function with finite weight

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Complex Analysis

Day 3

Date: 29/12/2024

Time 2.20 pm - 3.40 pm

Venue: Classroom No. 225, Block II, First Floor (Parallel Session)

Chair	Speaker	Title of the talk
P. Muthukumar	Agnihotri Roy (Pondicherry University)	Bounding inequalities and integral transforms of extended complete omega function
	Uthara S (Pondicherry University)	On generalized extended voigt-type function and associated bounds
	S Pirivina (Pondicherry University)	On generalized fractional derivative operators involving hypergeometric functions and associated generating relations

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Functional Analysis

Venue: Classroom No. 201, Block II, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
T S S R K Rao	10.50 am - 11.20 am	Vamsinadh Thota (NIT Tiruchirappalli)	On Equability and Ball Equability in Banach Spaces
	11.20 am - 11.50 am	Arpita Mal (DAIICT Gandhinagar)	Extreme points of the unit ball of $L(X) *_W$ and best approximation in $L(X)_W$
Anil Kumar Karn	12.00 pm - 12.30 pm	Jayanarayanan C R (IIT Palakkad)	Strong proximality of the unit ball of compact operators on Hilbert spaces
	12.30 pm - 1.00 pm	Gargi Ghosh (IIT Roorkee)	2-proper holomorphic images of classical Cartan domains

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Functional Analysis

Venue: Classroom No. 201, Block II, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Sudeshna Basu	10.45 am – 11.15 am	M A Sofi (Kashmir University Srinagar)	Bilipschitz Embedding Into Hilbert Spaces
	11.15 am – 11.45 am	Susmita Seal (RKMVERI)	Ball separation characterization of dentability and related properties in Banach spaces
S Lalithambigai	11.55 am a– 12.25 pm	Anil Kumar Karn (NISER Bhubaneswar)	On the geometry of an order unit space
	12.25 pm – 12.55 pm	Gayathri P (IIT Bombay)	Generalizations of Hahn-Banach extension property
C R Jayanarayanan	2.20 pm – 2.50 pm	Sudeshna Basu (Loyola University)	Diameter 2 Properties in duals of Ideals in Banach Spaces
	2.50 pm – 3.20 pm	Neeru Bala (IIT (ISM) Dhanbad)	Nayak's Theorem for exponential of compact operators

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December 27-29, 2024

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Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

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Venue: Classroom No. 201, Block II, Ground Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Priyanka Grover	9.15 am – 9.45 am	Uday Shankar Chakraborty (Assam University Silchar)	On some Bishop-Phelps-Bollobas type properties of operators with respect to minimum norm and Crawford number
	9.45 am – 10.15 am	Aryaman Sensarma (NIT Silchar)	Russo-Dye type Theorem, Stinespring representation, and Radon Nikodym derivative for invariant block multilinear completely positive maps
Pradipta Bandyopadhyay	10.45 am – 11.15 am	S Lalithambigai (Madurai Kamaraj University)	Ball Proximinal Banach Spaces
	11.15 am – 11.45 am	Soumitra Daptari (Shiv Nadar Institution of Eminence)	Uniqueness of Hahn-Banach extensions in renorming spaces
M A Sofi	11.55 am – 12.25 pm	Deepak Gothwal (ISI Kolkata)	Residuality of uniformly smooth norms via ball separation
	12.25 pm – 12.55 pm	Priyanka Grover (Shiv Nadar Institution of Eminence)	Distance problems for tuples of operators

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Functional Analysis

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 201, Block II, Ground Floor

Chair	Speaker	Title of the talk
Aryaman Sensarma	Kamleshkumar Ratilal Baleviya (Sardar Patel University)	Compact elements in weighted discrete abelian semigroup algebra $l^1(S_1 \times S_2, \omega)$
	Arindam Mandal (NISER Bhubaneswar)	Pointwise Lipschitz functions
	Sudhir Kumar (Sardar Patel University)	Functions of bounded fractional differential variation

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December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Functional Analysis

Day 2

Date: 28/12/2024

Time 3.50 pm – 4.50 pm

Venue: Classroom No. 201, Block II, Ground Floor

Chair	Speaker	Title of the talk
Gargi Ghosh	Bhaskar Paul (IIT Bhilai)	Operators on Hilbert space having gamma $\Gamma_{E(3;3;1,1,1)}$ and gamma $\Gamma_{E(3;2;1,2)}$ as spectral sets
	Priyanka Priyadarshini Behera (IIT Kharagpur)	Some geometric properties of LUR Banach spaces and renormings
	Jitender Sharma (IISER Kolkata)	Quantum isomorphism of 2-graphs

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Functional Analysis

Day 3

Date: 29/12/2024

Time 2.20 pm - 3.40 pm

Venue: Classroom No. 201, Block II, Ground Floor

Chair	Speaker	Title of the talk
Susmita Seal	Sumit Kumar (JNU New Delhi)	On various notions of distance between subalgebras of operator algebras
	Ankit Kumar (Punjab Engineering College Chandigarh)	A new characterization of Browder's theorem arising from Fredholm theory
	Manu Rohilla (J.C. Bose University of Science and Technology Faridabad)	Common fixed points and coincidence points under a homotopy of families of mappings in b-metric spaces
	Kiran Antony (NIT Karnataka)	Baire Functions and Non-isolated Discontinuous Forts

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Geometry and Topology

Venue: Classroom No. 238, Block II, Second Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Soumya Dey	10.50 am – 11.20 am	Ajay Singh Thakur (IIT Kanpur)	On KO-groups of complex Milnor hypersurface
	11.20 am – 11.50 am	Madeti Prabhakar (IIT Ropar)	On Twisted Knots
Krishshnendu Gongopadhyay	12.00 pm – 12.30 pm	C P Anil Kumar (Krea University)	Combinatorics and Topology of Hyperplane Arrangements
	12.30 pm – 1.00 pm	Sushil Bhunia (BITS Pilani Hyderabad)	Twisted conjugacy in Torelli groups

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Geometry and Topology

Venue: Classroom No. 238, Block II, Second Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Banktेशwar Tiwari	10.45 am – 11.45 am	Prateep Chakraborty (IIT Kharagpur)	A structure theorem and left orderability of a quotient of quasi-isometry group of the real line
	10.45 am – 11.45 am	Soma Maity (IISER Mohali)	Volume growth and positive scalar curvature
C P Anil Kumar	11.55 am – 12.25 pm	Atreyee Bhattacharya (IISER Bhopal)	On Geometric realizations of cyclic actions on surfaces
	12.25 pm – 12.55 pm	Neeraj K. Dhanwani (IISER Mohali)	Liftable mapping class groups of surfaces
Ajay Singh Thakur	2.20 pm – 2.50 pm	Sourav Ghosh (Ashoka University)	Flat affine manifolds with free fundamental group
	2.50 pm – 3.20 pm	Banktेशwar Tiwari (Banaras Hindu University Varanasi)	Funk-Finsler structure in constant curvature spaces

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Geometry and Topology

Venue: Classroom No. 238, Block II, Second Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Krishshnendu Gongopadhyay	9.15 am – 9.45 am	Kuldeep Saha (TCG CREST Kolkata)	Topology of Matching complex via discrete Morse theory
	9.45 am – 10.15 am	Pratulananda Das (Jadavpur University Kolkata)	On certain observations of characterized subgroups for arithmetic and related sequences
Arpan Kabiraj	10.45 am – 11.15 am	Gangotryi Sorcar (Krea University)	High dimensional hyperbolic virtually fibered right-angled Coxeter groups
	10.15 am – 11.45 am	Shubhabrata Das (Presidency University Kolkata)	Amenable action for Groups with weak hyperbolicity properties
Soumya Dey	11.55 pm – 12.25 pm	Arpan Kabiraj (IIT Palakkad)	Lifting criteria of closed curves to finite covers
	12.25 pm – 12.55 pm	Gautam Bharali (IISc Bengaluru)	A metrical notion of negative curvature and applications to the Kobayashi metric

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Geometry and Topology

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 238, Block II, Second Floor (Parallel Session – II)

Chair	Speaker	Title of the talk
Shubhabrata Das	Debamita Chatterjee (JNU New Delhi)	Characterisation of distal actions of automorphisms on the space of one-parameter subgroups of Lie groups
	Sai Rasmi Ranjan Mohanty (Shiv Nadar Institution of Eminence Delhi NCR)	Genus zero complete maximal maps and maxfaces with an arbitrary number of ends
	Manoj Prajapati (Charotar University of Science and Technology)	Expansive actions of automorphisms of locally compact groups on the space of closed subgroups

Venue: Classroom No. 237, Block II, Second Floor (Parallel Session – II)

Chair	Speaker	Title of the talk
Gangotryi Sorcar	Raju Kumar Gupta (IIT Delhi)	A characterization of normal 3-pseudomanifolds with at most two singularities
	Sayoojya Prakash (IISER Bhopal)	On rigidity of conformal submersions
	Rivu Bardhan (Shiv Nadar Institute of Eminence Delhi NCR)	Higher genus maxfaces with one Enneper end

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities

CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Geometry and Topology

Day 2

Date: 28/12/2024

Time 3.50 pm – 4.50 pm

Venue: Classroom No. 238, Block II, Second Floor (Parallel Session)

Chair	Speaker	Title of the talk
C P Anil Kumar	Bhola Nath Saha (IIT Kanpur)	Length of filling pairs on punctured surfaces
	Himanshu Chandrakar (IIT Bhilai)	Topology of total cut and cut complexes of grid graphs
	Rohit Nageshwar (University of Delhi)	Stability in set-valued dynamics: A pointwise perspective

Venue: Classroom No. 237, Block II, Second Floor (Parallel Session)

Chair	Speaker	Title of the talk
Kuldeep Saha	Ramesh Kumar (University of Delhi)	Dynamics of set-valued maps from topological and measure theoretical view point
	Anu Dhochak (Shiv Nadar Institution of Eminence Delhi NCR)	Construction and singularities of higher genus maxfaces
	Nayan Adhikary (IIT Delhi)	Topological transitivity and skew products

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities

CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Geometry and Topology

Day 3

Date: 29/12/2024

Time 2.20 pm – 3.40 pm

Venue: Classroom No. 238, Block II, Second Floor (Parallel Session – II)

Chair	Speaker	Title of the talk
Gangotryi Sorcar	Bidyabati Thangjam (Mizoram University)	Ricci soliton and thermodynamical fluid spacetime
	Swarup Kumar Das (TCG CREST)	Khovanov homology and exotic discs
	Aninda Banerjee (TCG CREST)	Spanning tree model for Chromatic homology

Venue: Classroom No. 237, Block II, Second Floor (Parallel Session – II)

Chair	Speaker	Title of the talk
Kuldeep Saha	Navnath Daundkar (IISER Pune)	Equivariant parametrized topological complexity
	Deepanshi Saraf (IISER Mohali)	Residual finiteness of fundamental n-Quandles of links
	Deblina Das (IIT Palakkad)	Simple Lift of Non-Simple Closed Curves

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Groups and their Representations

Venue: Classroom No. 004, Block I, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Ashish Mishra	10.50 am - 11.20 am	Santosh Nadimpalli (IIT Kanpur)	Twisted Jacquet modules of $GL(2, D)$
	11.20 am - 11.50 am	Manju Khan (IIT Ropar)	On the units in group rings over Z_n
Pooja Singla	12.00 pm - 12.30 pm	Ashish Mishra (LNMIIT Jaipur)	Gelfand models for finite complex reflection groups
	12.30 pm - 1.00 pm	Shushma Rani (IISc Bengaluru)	Filtration of tensor product of local Weyl modules by fusion modules

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Groups and their Representations

Venue: Classroom No. 004, Block I, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Manoj Kumar Yadav	10.45 am – 11.45 am	Sunil Kumar Prajapati (IIT Bhubaneswar)	Character Codegrees and Exceptional Groups
	10.45 am – 11.45 am	Sugandha Maheshwari (IIT Roorkee)	Cut groups: progress and problems
B. Sury	11.55 am – 12.25 pm	Krishnendu Gongopadhyay (IISER Mohali)	Character variety of Anosov representations
	12.25 pm – 12.55 pm	Shradha Srivastava (IIT Dharwad)	On Kostant's problem
Krishnendu Gongopadhyay	2.20 pm – 2.50 pm	B Sury (ISI Bengaluru)	Unitriangular factorization, and Commutator Width for Chevalley groups and Applications to Kazhdan's Property T for Holomorphic Matrices.
	2.50 pm – 3.20 pm	Rijubrata Kundu (IMSc Chennai)	Covering Numbers of Some Irreducible Characters of the Symmetric Group

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Groups and their Representations

Venue: Classroom No. 004, Block I, Ground Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Shradha Srivastava	9.15 am – 9.45 am	G Krishna Teja (ISI Bengaluru)	Weyl Character Type Formulas
	9.45 am – 10.15 am	Manoj Kumar Yadav (HRI Allahabad)	Isoclinism of algebraic structures: then and now
Venketasubramanian C. G.	10.45 am – 11.15 am	Radhika Ganapathy (IISc Bengaluru)	An Iwahori variant of the Kazhdan isomorphism
	11.15 am – 11.45 am	Sandip Singh (IIT Bombay)	Lattices in $R_n \rtimes SL_2(R)$
Sandip Singh	11.55 pm – 12.55 pm	Venketasubramanian C. G. (IISER Tirupati)	Twisted Jacquet modules of principal series representations of p -adic groups
	11.55 pm – 12.55 pm	Jyotirmoy Ganguly (Gitam University Bengaluru)	Spinoral Representations of the Symmetric Groups

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Groups and their Representation

Day 1

Date: 27/12/2024

Time 2.30 pm - 3.30 pm

Venue: Classroom No. 0044, Block I, Ground Floor

Chair	Speaker	Title of the talk
Sunil Kumar Prajapati	Nabajit Talukdar (Cotton University)	Some results on GVS-groups with two character degrees
	Sabyasachi Dhar (IIT Kanpur)	Compatibility of Kazhdan and Brauer homomorphism
	Gurleen Kaur (IIT Ropar)	Representation dimension of p-Groups

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Harmonic Analysis

Venue: Classroom No. 213, Block II, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Pradeep Boggarapu	10.50 am – 11.20 am	Narayanan E. K. (IISc Bengaluru)	Homogeneous operators and Mackey's imprimitivity theorem
	11.20 am – 11.50 am	Sayan Bagchi (IISER Kolkata)	On pseudo-multipliers associated to Grushin operators.
Sayan Bagchi	12.00 pm – 12.30 pm	Sanjay Parui (NISER Bhubaneswar)	Boundedness of Differential Transforms for Dunkl Heat Semigroups
	12.30 pm – 1.00 pm	Pradeep Boggarapu (BITS Pilani Goa)	Strichartz inequalities in Dunkl setting

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Harmonic Analysis

Venue: Classroom No. 213, Block II, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Narayanan E. K.	10.45 am – 11.45 am	Samya Kumar Ray (IISER Thiruvananthapuram)	Weighted weak $(1, 1)$ estimate for non-commutative square function
	10.45 am – 11.45 am	Abhishek Ghosh (IIT Jammu)	Hardy-Littlewood maximal function on homogeneous trees
Sanjay Parui	11.55 am – 12.25 pm	Suparna Sen (University of Calcutta)	Beurling's theorem and radially
	12.25 pm – 12.55 pm	Amit Samanta (RMVERI)	Paley-Wiener theorem for Weyl transform of radial function
M. Sundari	2.20 pm – 2.50 pm	Muna Naik (IISc Bengaluru)	L^p -asymptotic behaviour of approximate identities on homogeneous groups
	2.50 pm – 3.20 pm	Jayanta Sarkar (IISER Kolkata)	L^p -asymptotic behaviour of solutions of the heat equation on Riemannian symmetric spaces of non-compact type

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Harmonic Analysis

Venue: Classroom No. 213, Block II, Ground Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Amit Samanta	9.15 am – 9.45 am	M. Sundari (CMI Chennai)	Benedicks theorem and the Heisenberg group
	9.45 am – 10.15 am	Ramesh Manna (NISER Bhubaneswar)	The square function related to Fourier integral operator
Pratyoosh Kumar	10.45 am – 11.15 am	Senthil Raani K S (IISER Berhampur)	Szemerédi type theorems
	11.15 am – 11.45 am	Somnath Ghosh (IISc Bengaluru)	Density of exponentials and Perron-Frobenius operators.
Senthil Raani K S	11.55 pm – 12.55 pm	Shyam Swarup Mondal (ISI Kolkata)	Szegő limit theorems for Anharmonic oscillators
	11.55 pm – 12.55 pm	Pratyoosh Kumar (IIT Guwahati)	Eigen function of the Laplace- Beltrami operator

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Harmonic Analysis

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 213, Block II, Ground Floor

Chair	Speaker	Title of the talk
Samya Kumar Ray	Nishta Garg (IISER Bhopal)	Riesz transforms associated with the twisted Laplacian with drift
	Ravi Singh Chauhan (University of Allahabad)	Product of quantum dynamical systems on shadowing property
	Joydwip Singh (IISER Kolkata)	Bochner-Riesz commutators for Grushin operators

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Harmonic Analysis

Day 2

Date: 28/12/2024

Time 3.50 pm - 4.50 pm

Venue: Classroom No. 213, Block II, Ground Floor

Chair	Speaker	Title of the talk
Ramesh Manna	Arvish Dabra (IIT Delhi)	Restriction theorems for the p-analog of the Fourier-Stieltjes algebra
	Lalit Mohan (IIT Delhi)	Weighted periodic and discrete pseudo-differential operators
	Kanupriya (IIT Delhi)	Spectral synthesis in the multidimensional Fourier algebra

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Harmonic Analysis

Day 3

Date: 29/12/2024

Time 2.20 pm - 3.40 pm

Venue: Classroom No. 213, Block II, Ground Floor

Chair	Speaker	Title of the talk
Muna Naik	Ritika Singhal (IIT Delhi)	Restriction theorems for the p-analog of the Fourier-Stieltjes algebra
	Rattan Lal (Punjab Engineering college Chandigarh)	Orlicz Figa-Talamanca Herz algebras and its properties
	Shubhankar Ghosh (University of Calcutta)	Generalized Beurling theorem on Heisenberg motion groups and two step nilpotent Lie groups
	Purna Gulia (IIT Delhi)	Gutzmer's formula on H-type groups

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Partial Differential Equations

Venue: Classroom No. 203, Block II, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Anup Biswas	10.50 am – 11.20 am	Arka Mallick (IISc Bengaluru)	Excess Decay for quasilinear equations in the Heisenberg Group and consequences
	11.20 am – 11.50 am	Indranil Chowdhury (IIT Kanpur)	Degenerate Fully Nonlinear Mean Field Game with Nonlocal Diffusion
Debdip Ganguly	12.00 pm – 12.30 pm	Anup Biswas (IISER Pune)	On the solutions of local Hamilton-Jacobi Equations with Gradient Nonlinearity.
	12.30 pm – 1.00 pm	Prashanta Garain (IISER Berhampur)	Weak Harnack inequality for a mixed local and nonlocal parabolic equation

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Partial Differential Equations

Venue: Classroom No. 203, Block II, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Indranil Chowdhury	10.45 am – 11.45 am	Tuhin Ghosh (HRI Allahabad)	Inverse Scattering problem for the fractional Schrödinger equation
	10.45 am – 11.45 am	Divyang Bhimani (IISER Pune)	Low-Regularity global solution of the inhomogeneous nonlinear Schrödinger equation in modulation spaces
Arka Mallick	11.55 am – 12.25 pm	Debayan Maity (TIFR-CAM Bengaluru)	Solids moving in a viscous fluid
	12.25 pm – 12.55 pm	Rajib Dutta (IISER Kolkata)	Global approximate controllability of the Camassa-Holm equation in one dimension
Divyang Bhimani	2.20 pm – 2.50 pm	Shirshendu Chowdhury (IISER Kolkata)	Null-controllability of compressible Navier-Stokes equations in one dimension
	2.50 pm – 3.20 pm	Amrita Ghosh (HRI Prayagraj)	A thin film model of a meniscus evolution

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Partial Differential Equations

Venue: Classroom No. 203, Block II, Ground Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Debabrata Karmakar	9.15 am – 9.45 am	Mousomi Bhakta (IISER Pune)	Fractional Schrödinger equations with mixed nonlinearities
	9.45 am – 10.15 am	Abhishek Sarkar (IIT Jodhpur)	Degenerate Schrödinger-Kirchhoff (p, N) - Laplacian with singular Trudinger-Moser nonlinearity in R^n
Mousomi Bhakta	10.45 am – 11.15 am	Debanjan Nandi (IISc Bengaluru)	A general Doob transform for diffusion processes
	11.15 am – 11.45 am	Mayukh Mukherjee (IIT Bombay)	Spectra of negatively curved Riemannian manifolds
Debdip Ganguly	11.55 am – 12.25 pm	Debabrata Karmakar (TIFR-CAM Bengaluru)	Quantitative stability of the Poincaré-Sobolev inequality on the hyperbolic space
	12.25 pm – 12.55 pm		

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks - Partial Differential Equations

Day 1

Date: 27/12/2024

Time 2.30 pm - 3.30 pm

Venue: Classroom No. 203, Block II, Ground Floor (Parallel Session - III)

Chair	Speaker	Title of the talk
Nisha Mary Thomas	Bhawini Prasad (IIT Madras)	A mathematical model for personalized nanomedicine to treat stenosis in a patient suffering from diabetes
	Rekha Bali (Harcourt Butler Technical University Kanpur)	Effect of transport of nanoparticles on diffusive flux and filtration efficiency in capillary - tissue exchange system: A mathematical model
	Suman Kanungo (IIT Bhilai)	Nonlocal problem with critical exponential nonlinearity of convolution type: A non-resonant case

Venue: Classroom No. G, Block II, Ground Floor (Parallel Session - III)

Chair	Speaker	Title of the talk
Manjunatha S	Stuti Das (IIT Kanpur)	Gradient Holder regularity in mixed local and nonlocal linear parabolic problem
	Anupma Arora (BITS Pilani)	Existence results for singular double phase problem with variable exponents
	Anusree R (IIT Hyderabad)	Sign changing solutions for the gradient type (p, q) - Laplacian system in R^n

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Partial Differential Equations

Day 2

Date: 28/12/2024

Time 3.50 pm - 4.50 pm

Venue: Classroom No. 203, Block II, Ground Floor

(Parallel Session - III)

Chair	Speaker	Title of the talk
Ammani Kuttan B	Shilpa Gupta (IIT Kanpur)	Generalized concentration compactness principle and its applications to fractional problems with critical growth in \mathbb{R}^n
	Atanu Manna (IIT Hyderabad)	Existence and multiplicity of non-radial sign-changing solutions for a semilinear elliptic equation in hyperbolic space
	Vikas Kashinath Wakode (Shrikrishna Mahavidyalaya Gunjoti)	Monotone method for Hadamard fractional differential equations and applications

Venue: Classroom No. 206, Block II, Ground Floor

(Parallel Session - III)

Chair	Speaker	Title of the talk
Siddabasappa C	Vikram Yallapa Naik (IIT Kanpur)	On a critical Choquard-type equation with vanishing potential in the Heisenberg group
	Shrabanika Boruah (Mizoram University)	Effect of magnetic parameter on the reflected waves in generalized magneto micropolar thermoelastic materials
	Himanshu Kumar Dwivedi (IIT (BHU) Varanasi)	A novel fast second order approach with high-order compact difference scheme and its analysis for the tempered fractional Burgers equation

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks - Partial Differential Equations

Day 3

Date: 29/12/2024

Time 2.20 pm - 3.40 pm

Venue: Classroom No. 203, Block II, Ground Floor (Parallel Session - III)

Chair	Speaker	Title of the talk
Tanuja N	Richa Singh (IIT BHU)	An efficient cubic spline method with convergence analysis for higher dimensional time-fractional reaction-diffusion problems
	Priyanka A. Singh (IIT (BHU) Varanasi)	Convergence analysis for variable coefficient time-fractional reaction-diffusion equation exhibiting non-smooth solution
	Aishwarya Jaiswal (IIT BHU)	A computationally efficient approach for a system of singularly perturbed semilinear convection diffusion differential equations
	N N Dattatreya (IIT Kanpur)	On boundary blow up solution to p-Laplace equation on infinite cylinders

Venue: Classroom No. 206, Block II, Ground Floor (Parallel Session - III)

Chair	Speaker	Title of the talk
Nisha Mary Thomas	K Ashok Kumar (TIFR - CAM Bengaluru)	Strict monotonicity of the first q-eigenvalue of the fractional p-Laplace operator over annuli
	Chetan Singh (IIT Delhi)	Entropy Stable Finite Difference Schemes for Chew, Goldberger & low Anisotropic Plasma Flow Equations
	Nirjan Biswas (IISER Pune)	On generalized eigenvalue problems of fractional (p, q)-Laplace operator with two parameters
	Rohit Kumar	Characterization of Higher Order Fractional Weighted Homogeneous Spaces

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

	(IIT Jodhpur)	
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Symposium Talks – Probability Theory

Venue: Classroom No. 111, Block I, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Kumarjit Saha	10.50 am – 11.20 am	Nishant Chandgotia (TIFR-CAM, Bengaluru)	Forbidding patterns: Some simple combinatorics and some seemingly difficult questions.
	11.20 am – 11.50 am	Debanjan Nandi (IISc Bengaluru)	Random walks in hyperbolic groups, Lyons-Sullivan discretizations and Martin boundaries
Debleena Thacker	12.00 pm – 12.30 pm	Gugan Thoppe (IISc Bengaluru)	The Shadow Knows: Empirical Distributions of Minimum Spanning Acycles and Persistence Diagrams of Random Complexes.
	12.30 pm – 1.00 pm	Kumarjit Saha (Ashoka University)	A continuum oriented percolation model.

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Probability Theory

Venue: Classroom No. 111, Block I, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Gugan Thoppe	10.45 am – 11.45 am	Veeraruna Kavitha (IIT Bombay)	Behavioral game dynamics with rational and irrational players.
	10.45 am – 11.45 am	Subhamay Saha (IIT Guwahati)	Zero Sum Risk-sensitive Semi-Markov Games.
Subhamay Saha	11.55 am – 12.25 pm	Souvik Roy (ISI Kolkata)	Aggregation of Choice Functions on Non-rational Domains.
	12.25 pm – 12.55 pm	Atul Shekhar (TIFR-CAM Bengaluru)	On the domain of attraction of Branching Brownian motion.
Atul Shekhar	2.20 pm – 2.50 pm	Suprio Bhar (IIT Kanpur)	Kac's Central Limit Theorem by Stein's Method.
	2.50 pm – 3.20 pm	Subhajit Ghosh (ISI Bengaluru)	On the number of components of random polynomial lemniscates

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Probability Theory

Venue: Classroom No. 111, Block I, Ground Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Ayan Bhattacharya	9.15 am – 9.45 am	Debleena Thacker (University of Durham)	Long-range one-dimensional internal-diffusion aggregation.
	9.45 am – 10.15 am	Somya Singh (IIT Bombay)	An interacting network of finite memory Pólya urns.
Anand Deo	10.45 am – 11.15 am	Chetan D. Pahlajani (IIT Gandhinagar)	Some limit theorems for stochastic differential equations with small random noise and fast periodic sampling.
	11.15 am – 11.45 am	Ayan Bhattacharya (IIT Bombay)	Persistence exponent of the regular varying random walk
Chetan D. Pahlajani	11.55 am – 12.25 pm	Ananya Lahiri (IIT Tirupati)	A lagged cross correction model for dependent data with memory and its application in finance.
	12.25 pm – 12.55 pm	Anand Deo (IIM Bengaluru)	Quantifying the cost of safe decision making through analysis of chance constrained optimization problems.

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Contributory Talks – Probability Theory

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 111, Block I, First Floor

Chair	Speaker	Title of the talk
Nishant Chandgotia	Arnab Chowdhury (TIFR CAM Bengaluru)	Large deviation principle for complex solution to squared Bessel SDE
	Aditya Kumar Yadav (Tezpur University)	A study of generalized and skewed generalized student's T -distributions

Contributory Talks – Probability Theory

Day 2

Date: 28/12/2024

Time 3.50 pm – 4.50 pm

Venue: Classroom No. 111, Block I, First Floor

Chair	Speaker	Title of the talk
Suprio Bhar	Pritam Dahal (Tezpur University)	On the estimation of excess over threshold distribution function
	Yeshvandhini Kumar (Shiv Nadar University)	Solving Multi-Attribute Decision-Making problems using Interval-Valued Intuitionistic Fuzzy Yager Geometric Aggregation operators

39th Annual Conference of the Ramanujan Mathematical Society (RMS 2024)
December 27-29, 2024

Complete Schedule

Department of Sciences and Humanities
CHRIST (Deemed to be University), Bengaluru - 560074

Symposium Talks – Number Theory

Venue: Classroom No. 205, Block II, Ground Floor

Day 1

Date: 27/12/2024

Chair	Time	Speaker	Title of the talk
Shalini Bhattacharya	10.50 am – 11.20 am	Veekesh Kumar (IIT Dharwad)	Rational approximations to linear combinations of powers of algebraic numbers
	11.20 am – 11.50 am	Divyum Sharma (BITS Pilani)	On Diophantine equations arising from numeration systems
Veekesh Kumar	12.00 pm – 12.30 pm	Shaunak Deo (IISc Bengaluru)	Level raising for modular forms in the residually reducible case
	12.30 pm – 1.00 pm	Shalini Bhattacharya (University of Hyderabad)	Mod p reduction of Galois representations via LLC

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Venue: Classroom No. 205, Block II, Ground Floor

Day 2

Date: 28/12/2024

Chair	Time	Speaker	Title of the talk
Brundaban Sahu	10.45 am – 11.15 am	Somnath Jha (IIT Kanpur)	Some cases of the cube sum problem
	11.15 am – 11.45 am	Balesh Kumar (IIT Ropar)	Traces of (sesqui)-harmonic Maass forms and its arithmetic
Anupam Saikia	11.55 am – 12.25 pm	Supriya Pisolkar (IISER Pune)	Uniform Groups & the Fontaine-Mazur Conjecture
	12.25 pm – 12.55 pm	Mihir Sheth (IISc Bengaluru)	Strong linear independence of primitive forms
Somnath Jha	2.20 pm – 2.50 pm	Bidisha Roy (IIT Tirupati)	Geometric interpretation of certain moments of Hypergeometric character sums
	2.50 pm – 3.20 pm	Anupam Saikia (IIT Guwahati)	A criterion for congruent numbers in terms of class number of associated quadratic fields

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Symposium Talks – Number Theory

Venue: Classroom No. 205, Block II, Ground Floor

Day 3

Date: 29/12/2024

Chair	Time	Speaker	Title of the talk
Supriya Pisolkar	9.15 am – 9.45 am	Brundaban Sahu (NISER Bhubaneswar)	Nonvanishing of kernel functions and Poincaré series for Jacobi forms
	9.45 am – 10.15 am	Sudipa Mondal (IIT Madras)	Quadratic twist of epsilon factor of symmetric power transfers of a modular form
Balesh Kumar	10.45 am – 11.15 am	Ekata Saha (IIT Delhi)	Arithmetic nature of special values of the incomplete gamma and beta functions
	11.15 am – 11.45 am	Biswajyoti Saha (IIT Delhi)	Convergence of multiple polylogarithm at integer point outside the domain of absolute convergence
Ekata Saha	11.55 am – 12.25 pm	Jyothsna S (IISER Thiruvananthapuram)	Products of primes in ray classes
	12.25 pm – 12.50 pm	Keshav Aggarwal (IIT Bombay)	Short second moment bound and subconvexity for $GL(3)$ L-functions

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Contributory Talks – Number Theory

Day 1

Date: 27/12/2024

Time 2.30 pm – 3.30 pm

Venue: Classroom No. 205, Block II, Ground Floor

Chair	Speaker	Title of the talk
Divyum Sharma	Ashish Kumar Pandey (University of Allahabad)	On inequalities related to the Jordan totient function and some Lucas sequences
	Kushal Bhowmick (Harish-Chandra Research Institute)	The size of 2-Selmer groups for the $\pi/3$ -congruent number problem
	Bhargab Das (Harish-Chandra Research Institute)	p -adic Artin Formalism of twisted triple product

Contributory Talks – Number Theory

Day 2

Date: 28/12/2024

Time 3.50 pm – 4.50 pm

Venue: Classroom No. 205, Block II, Ground Floor

Chair	Speaker	Title of the talk
Bidisha Roy	Vrikshavardhana Hebbar N (NIT Mysuru)	On the distribution of quadratic residues and nonresidues modulo prime p
	Manjunatha M R (IIT Indore)	Partition of quadratic residues and non-residues in Z_p^* for an odd prime p
	Omprakash Atale (Pune University)	The size of 2-Selmer groups for the $\pi/3$ -congruent number problem