

38th Annual Conference of the Ramanujan Mathematical Society (RMS 2023)
December 22-24, 2023
IIT Guwahati

DAY-1 (December 22, 2023)

22nd Dec	8:00-8:55 Registration (Auditorium)	9:00-9:10 Inauguration (Auditorium)	9:10-10:05 Plenary 1 (Auditorium)	10:05-10:35 High Tea (Auditorium)	10:50-11:50 ST 1, 2 (Core-5)	11:55-12:55 ST 3, 4 (Core-5)	1:00-2:30 Lunch (Conference Center)	2:40-4:00 CT (Core-5)	4:00-4:20 Tea (Core-5)	4:20-5:00 CT (Core-5)	5:20-6:15 Public Lecture (Auditorium)	6:20-7:20 GBM (Auditorium)
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DAY-2 (December 23, 2023)

23rd Dec	9:00-9:55 Plenary 2 (Auditorium)	10:00-10:30 Tea (Auditorium)	10:45-11:45 ST 5, 6 (Core-5)	11:50-12:50 ST 7, 8 (Core-5)	1:00-2:30 Lunch (Conference Center)	2:40-3:40 ST 9, 10 (Core-5)	3:45-4:05 CT (Core-5)	4:05-4:25 Tea (Core-5)	4:25-5:45 CT (Core-5)	6:00-6:55 Plenary 3 (Auditorium)
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DAY-3 (December 24, 2023)

24th Dec	9:00-9:55 Plenary 4 (Auditorium)	10:00-10:30 Tea (Auditorium)	10:45-11:45 ST 11, 12 (Core-5)	11:50-12:50 ST 13, 14 (Core-5)	1:00-2:30 Lunch (Conference Center)	2:40-3:40 ST 15, 16 (Core-5)	3:45-4:05 CT (Core-5)	4:05-4:25 Tea (Core-5)	4:25-5:25 CT (Core-5)	5:40-6:35 Plenary 5 (Auditorium)	6:40-7:00 Valedictory (Auditorium)
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*Auditorium: Dr. Bhupen Hazarika Auditorium *ST: Symposia Talks *CT: Contributory Talks

*Average walking time from Auditorium to Core-5 is 10 minutes

Plenary/Public Talks

Venue: Dr. Bhupen Hazarika Auditorium

(December 22-24, 2023)

Talk	Date	Time	Speaker	Title of the talk
Plenary 1 (Professor R. Balakrishnan's Endowment Lecture) Chair: Anupam Saikia	22 Dec	9:10-10:05	M. S. Raghunathan (CBS Mumbai)	Two Alumni of Loyola College, Chennai
Public Lecture Chair: Jugal Verma	22 Dec	5:20-6:15	K. Ramasubramanian (IIT Bombay)	The History and Historiography of the Discovery of Calculus in India
Plenary 2 Chair: Panchugopal Bikram	23 Dec	9:00-9:55	Kallol Paul (Jadavpur University)	Geomtery of the space of linear operators from the perspective of Birkhoff-James orthgonality
Plenary 3 Chair: Tony J. Puthenpurakal	23 Dec	6:00-6:55	Gurmeet Kaur Bakshi (Panjab University)	Units in integral group rings
Plenary 4 Chair: Anand Sawant	24 Dec	9:00-9:55	Indranil Biswas (TIFR Mumbai)	Nonabelian Hodge Theory
Plenary 5 Chair: Rajen Kumar Sinha	24 Dec	5:40-6:35	Manjunath Krishnapur (IISc Bangalore)	Nodal sets and nodal domains of random eigenfunctions of the Laplacian

Geometry and Topology

(Venue: Academic Complex - Core 5)

Core-5 class rooms have Green Chalk Boards and Projectors

DAY-1 (December 22, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Geometry and Topology Chairs: Anima Nagar and Rukmini Dey	5004	10:50-12:55	Radhika Gupta (TIFR Mumbai)	Combinatorial isoperimetric inequality for the free factor complex
			Abhijit Pal (IIT Kanpur)	Boundary at Infinity
			Pradip Kumar (SNIOE)	Constructing Zero Mean Curvature Surfaces in Euclidean Space and in the Lorentz-Minkowski Space.
			Aritra Bhowmick (IISER Kolkata)	Fibration with a Section and H-Splitting of the Looped Total Space

DAY-2 (December 23, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Geometry and Topology Chairs: Riddhi Shah, Dheeraj Kulkarni and Arijit Dey	5004	10:45-12:50	Ved Datar (IISc Bangalore)	Diameter rigidity for Kahler manifolds with positive bi-sectional curvature
			Arijit Dey (IIT Madras)	Brauer group of moduli space of parabolic bundles
			Abhijeet Ghanawat (TIFR Mumbai)	Trisections of 4-manifolds and their Murasugi sum
			Bidyut Sanki (IIT Kanpur)	A proof of Aougab-Huang conjecture
		2:40-3:40	Rukmini Dey (ICTS Bangalore)	Pull back coherent states and some applications
			Anima Nagar (IIT Delhi)	Transitivity in dynamical systems given by closed relations

Geometry and Topology

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Geometry and Topology Chair: Mahuya Datta	5004	10:45-12:20	Riddhi Shah (JNU)	The structure of Cartan subgroups in connected locally compact groups
			Apratim Chakraborty (TCG CREST, Kolkata)	Cabling Legendrian and Transverse Knots
			Dheeraj Kulkarni (IISER Bhopal)	On The Cost Function Associated With Legendrian Knots

***Each Symposia talk is of 30 minutes duration including discussions**

Geometry and Topology

(Venue: Academic Complex - Core 5)

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DAY-1 (December 22, 2023): Contributory Talks				
Subject	Venue	Time	Speaker	Title of the talk
Geometry and Topology Chair: Abhijit Pal	5004	2:40-4:00	Bidisha Samanta (Jadavpur University)	Traversable Wormholes Supported by Dark Matter and Monopoles with Semi-classical Effects
			Pooja Rani(IIT BHU)	The Brylinski Beta Function of a Double Layer
			Bhola Nath Saha (IIT Kanpur)	Filling with Separating Curves
			Manoj Prajapati (CUST Gujarat)	Dynamics of actions of automorphisms of discrete groups on certain compact spaces
Geometry and Topology Chair: Aritra Bhowmick	5004	4:20-5:00	Rohit Nageshwar (University of Delhi)	Exploring Expansivity and its Implication
			Sourav Sarkar (IIT Delhi)	On a construction of some homology \mathbb{Z} -manifolds

DAY-2 (December 23, 2023): Contributory Talks				
Geometry and Topology Chair: Arijit Dey	5004	3:45-4:05	Rana Sardar (IIT Kanpur)	Maps between Relatively Hyperbolic Boundaries
Geometry and Topology Chair: Anima Nagar	5004	4:25-5:45	Sehar Shakeel Raina (University of Jammu)	Some Implications of Relative Covering Axioms
			Subhamoy Mondal (Presidency University, Kolkata)	Rapid fluctuations of a curve under chaotic maps
			Sushmita Yadav (IIT Jodhpur)	On Dynamical Notions of Non-Autonomous Systems
			Dhriti Sundar Patra (IIT Hyderabad)	On the characterization of cosymplectic manifolds and rigidity of the Sasakian structure

Geometry and Topology

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Contributory Talks				
Geometry and Topology Chair: Apratim Chakraborty	5004	3:45-4:05	Susmita Sarkar (ICFAI University Tripura)	Non star - Rothberger Properties Experiencing the Residuals in an Ideal
Geometry and Topology Chair: Dheeraj Kulkarni	5004	4:25-5:05	Ankita Sharma (IIT BHU)	A Generalization of a Result of Minakshisundaram and Pleijel
			Anshu Agarwal (IIT Delhi)	Handle Decomposition for a large class of compact orientable PL-4 manifolds

***Each contributory talk is of 18 minutes duration including discussions**