

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

Probability Theory

(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
Probability Theory	5105	10:50-12:55	Soudeep Deb (IIM Bangalore)	Nonparametric estimation of shape-constrained time series regression model
			Sayar Karmakar (University of Florida)	The spread of an epidemic: a game-theoretic approach
			Moumanti Podder (IISER Pune)	On the ergodicity of a class of 1-dimensional probabilistic cellular automata with size-3 neighbourhoods
			Arijit Chakrabarty (ISI Kolkata)	Clustering of large deviations in moving average processes: short and long memory regimes

DAY-2 (December 23, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Probability Theory	5105	10:45-12:50	Anish Sarkar (ISI Delhi)	Convergence of drainage networks to Brownian web and some applications
			Nishant Chandgotia (TIFR CAM Bangalore)	The Dimer Model in 3 dimensions
			Soumyarup Sadhukhan (IIT Kanpur)	Committee formation under constraints through randomized voting rules on separable domains
			Krishanu Maulik (ISI Kolkata)	Memories in Motion - Understanding the Effect of Memory on Random Walks
		2:40-3:40	Arvind Ayyer (IISc Bangalore)	An asymmetric K-exclusion process
			Sohom Bhattacharya (University of Florida)	Inference and Ranking in mixed-membership models

Probability Theory

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Probability Theory	5105	10:45-12:50	Souvik Roy (ISI Kolkata)	Elicitation with Random Mechanisms: A Characterization
			Somabha Mukherjee (National University of Singapore)	Limit theorems and phase transitions in Tensor Curie-Weiss Ising and Potts Models
			Kartick Adhikari (IISER Bhopal)	On the diameter of the Linial-Meshulam Model
			Biltu Dan (IISc Bangalore)	Partial divisibility of random sets and powers of completely monotone functions

*Each Symposia talk is of 30 minutes duration including discussions

Probability Theory

(Venue: Academic Complex - Core 5)

Core-5 class rooms have Green Chalk Boards and Projectors

DAY-1 (December 22, 2023): Contributory Talks				
Subject	Venue	Time	Speaker	Title of the talk
Probability Theory Chair: Moumanti Podder	5105	2:40-3:40	Archi Roy (IISER Pune)	Nonparametric method of multiple structural break detection in time series
			Rik Ghosh (IIT Guwahati)	Optimal Adaptive SMART Designs with Binary Outcomes
			Ravi Kumar (IIT Hyderabad)	Standby Redundancy Allocation for Series and Parallel Systems

*Each contributory talk is of 18 minutes duration including discussions