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

DAY-1 (December 22, 2023)

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

DAY-2 (December 23, 2023)

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

DAY-3 (December 24, 2023)

	9:00-9:55	10:00-10:30	10:45-11:45	11:50-12:50	1:00-2:30	2:40-3:40	3:45-4:05	4:05-4:25	4:25-5:25	5:40-6:35	6:40-7:00
24 th											
Dec	Plenary 4	Теа	ST 11, 12	ST 13, 14	Lunch	ST 15, 16	СТ	Теа	СТ	Plenary 5	Valedictory
	(Auditorium)	(Auditorium)	(Core-5)	(Core-5)	(Conference	(Core-5)	(Core-5)	(Core-5)	(Core-5)	(Auditorium)	(Auditorium)
					Center)						

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

(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				
Functional Analysis	5102	10:50-12:55	Vijay Kodiyalam	Unitary invariants and an application to quantum solutions				
			(IMSc, Chennai)	of Euler's 36 officers problem				
Chair: Sandipan De			Arup Chattopadhyay	Higher-order spectral shift measures in several variables				
			(IIT Guwahati)					
			Sasmita Patnaik (IIT Kanpur)	Selfadjoint-Ideal Semigroups for Bounded Operators				
			Bata Krishna Das (IIT Bombay)	de Branges-Rovnyak spaces which are complete				
				Nevanlinna-Pick spaces				

DAY-2 (December 23, 2023): Symposia Talks							
Symposia	Venue	Time	Speaker	Title of the talk			
Functional Analysis	5102	10:45-12:50	Soumyashant Nayak	Algebraic aspects and functoriality of the set of a liated			
			(ISI Bangalore)	operators			
Chair: Ranjana Jain			Dhriti Ranjan Dolai	Smoothness of the integrated density of states (IDS) for the			
			(IIT Dharwad)	Anderson model on the Bethe lattice			
			Debabrata De	On symmetric embedding of purely atomic von Neumann			
			(NISER Bhubaneswar)	algebras			
			Diptesh Saha	Non-commutative Neveu decomposition and associated			
			(ISI Kolkata)	ergodic theorems			
		2:40-3:40	Sayan Chakraborty	Classi cation of crossed product C*-algebras of			
Chair: Sasmita			(TCG CREST, Kolkata)	noncommutative tori by cyclic groups			
Patnaik			Keshab Chandra Bakshi	A family of new subfactors arising from Hadamard matrices			
			(IIT Kanpur)				

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Symposia Talks								
Symposia	Venue	Time	Speaker	Title of the talk				
Functional Analysis	5102	10:45-12:50	Ranjana Jain	Centres of certain tensor products of Banach algebras				
			(Delhi University)					
			Rahul Kumar R	Mixed q-deformed Araki-Woods von Neumann algebras				
Chair:			(IIT Kanpur)					
Soumayashant			Monojit Bhattacharjee	Beurling quotient modules on the polydisc				
Nayak			(BITS Goa)					
			Sandipan De	Classi cation of pairs of commuting isometries with				
			(IIT Goa)	compact normal cross commutators				
		2:40-3:40	Kunal Krishna Mukherjee					
Chair: Sayan			(IIT Madras)					
Chakraborty			Issan Patri	The Eros-Marechal topology on the space of von-Neumann				
			(ISI Delhi)	algebras				

*Each Symposia talk is of 30 minutes duration including discussions

(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				
			Malay Mandal	Operator Space structures of non-commutative unitary C*-				
Functional Analysis	5102	2:40-4:00	(CMI Chennai)	algebra				
			Shamim Sohel	Extreme contractions on some special Banach spaces				
Chair: Samya Kumar Ray			(Jadavpur University)					
			Souvik Ghosh	On some geometric constants in a Banach space				
			(Jadavpur University)					
			Arvish Dabra (IIT Delhi)	Arens regularity of the Orlicz Figa-Talamanca Herz Algebra				
Functional Analysis	5102	4:20-5:00	Mansi Mishra (IIT BHU)	The Weyl Transform of a measure				
			Ritika Singhal (IIT Delhi)	Vector-Valued Properties of Weyl Transform				
Chair: Sasmita Patnaik								

DAY-2 (December 23, 2023): Contributory Talks								
Functional Analysis	5102	3:45-4:05	Uday Shankar Chakraborty	A Bishop-Phelps-Bollobas type property for Banach spaces				
			(Assam University)	with respect to minimum norm of bounded linear				
Chair: Debabrata De				operators				
Functional Analysis	5102	4:25-5:45	Sureshkumar M	Rokhlin Dimension: Permanence Properties and Ideal				
			(IISER Bhopal)	Separation				
Chair: Dhriti Ranjan Dolai			Santu Bera	A spectral dichotomy for commuting \$m\$-isometries with				
			(IIT Kanpur)	negative core operator				
			Shubham Jain	Toeplitz operators on the \$n\$-dimensional Hartogs triangle				
			(IIT Kanpur)					
			Pradip Debnath	Multivalued Geraghty contractions and their best proximity				
			(Tezpur University)	points				

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Contributory Talks								
Subject	Venue	Time	Speaker	Title of the talk				
Functional Analysis	5102	3:45-4:05	Praveen Sharma	Interpolation Results for Convergence of Implicit Euler				
			(Shri Vishwakarma Skill	Schemes with Accretive Operators				
Chair: Ranjana Jain			University)					
Functional Analysis	5102	4:25-5:25	Arshad Khan	Nearly Invariant Brangesian Subspaces				
			(Shiv Nadar Inst. of Eminence)					
Chair: Panchugopal		(Parallel	Sugirtha Gayathri	Kowalski-Sodkowski Theorem for Condition Spectrum				
Bikram		Session-I)	(IIT Hyderabad)					
			Mohana Rahul Nandan	A Generalized GKZ theorems and Kowalski-Słodkowski				
			(IIT Hyderabad)	theorem for Reproducing kernel Hilbert space				
Functional Analysis	5106	4:25-5:25	Krishna Bhattacharjee	New fixed point theorem on complete b-metric space by				
			(The ICFAI University, Tripura)	using Rus contraction mapping				
Chair: Kunal Krishna		(Parallel	Suman Kumar	Controllability of Second Order Differential Systems with				
Mukherjee		Session-I)	(IGNTU Amarkantak, MP)	Nonlinear Control				
			Kousik Dhara	Two Truncated Matrix Moment Problems				
			(IISc Bangalore)					

*Each contributory talk is of 18 minutes duration including discussions