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	CT		CT	Public	GBM
	(Auditorium)	(Auditorium)	(Auditorium)	(Auditorium)	(Core-5)	(Core-5)	(Conference	(Core-5)	Tea	(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	Tea	ST 5, 6	ST 7, 8	Lunch	ST 9, 10	СТ	Tea	СТ	Plenary 3
	(Auditorium)	(Auditorium)	(Core-5)	(Core-5)	(Conference Center)	(Core-5)	(Core-5)	(Core-5)	(Core-5)	(Auditorium)

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	Tea	ST 11, 12	ST 13, 14	Lunch	ST 15, 16	CT	Tea	CT	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 (Professor R. Balakrishnan's Endowment Lecture)	22 Dec	9:10-10:05	M. S. Raghunathan (CBS Mumbai)	Two Alumni of Loyola College, Chennai
Chair: Anupam Saikia				
Public Lecture	22 Dec	5:20-6:15	K. Ramasubramanian	The History and Historiography of the
Chair: Jugal Verma			(IIT Bombay)	Discovery of Calculus in India
Plenary 2	23 Dec	9:00-9:55	Kallol Paul	Geomtery of the space of linear operators
Chair: Panchugopal Bikram			(Jadavpur University)	from the perspective of Birkhoff-James 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 (TIFR Mumbai)	Nonabelian Hodge Theory
Chair: Anand Sawant				
Plenary 5	24 Dec	5:40-6:35	Manjunath Krishnapur (IISc Bangalore)	Nodal sets and nodal domains of random 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					
			Saikatul Haque (HRI Allahabad)	Ill-posedness of Hartee Equation					
Partial Differential	5104	10:50-12:55	Ved Datar	Non-linear PDEs on Kahler manifolds and positivity					
Equations			(IISc Bangalore)	conditions					
			Debanjana Mitra	Lack of null controllability of certain linear transport-					
			(IIT Bombay)	parabolic coupled systems					
			Saikat Mazumdar (IIT Bombay)	Existence results for the higher-order Q-curvature equation					

	DAY-2 (December 23, 2023): Symposia Talks								
Symposia	Venue	Time	Speaker	Title of the talk					
			Kartick Ghosh (IISc Bangalore)	Coupled Kähler-Einstein AND Hermitian-Yang-Mills					
Partial Differential	5104	10:45-12:50		equations					
Equations			Alok Kumar Sahoo	Global compactness result and multiplicity of solutions for a					
			(Dept of Higher Edu., Odisha)	class of critical exponent problem in the hyperbolic space					
			Aashirwad Naveen Ballal	The supercritical deformed Hermitian Yang-Mills equation					
			(IISc Bangalore)	on compact projective manifolds					
			Debdip Ganguly	Sharp quantitative stability of Poincaré-Sobolev inequality in					
			(IIT Delhi)	the hyperbolic space					
		2:40-3:40	Sheela Verma	Shape optimization problem for Steklov-Dirichlet					
			(IIT BHU)	eigenvalues					
			Sarika Goyal	Quasilinear Schrödinger Equations Involving Choquard Type					
			(Netaji Subhas Uni. of Tech.)	Critical Nonlinearity					

(Venue: Academic Complex - Core 5)

	DAY-3 (December 24, 2023): Symposia Talks							
Symposia	Venue	Time	Speaker	Title of the talk				
			Souptik Chakraborty	Some quantitative Sobolev-type inequalities				
Partial Differential	5104	10:45-12:20	(IIT Bombay)					
Equations			Abhrojyoti Sen	Fine boundary regularity for fully nonlinear mixed local-				
			(TIFR CAM Bangalore)	nonlocal problems				
			Subrata Majumdar	Controllability of the linearized compressible Navier-Stokes				
			(IIT Bombay)	system with Maxwell's law				

^{*}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					
Partial Differential Equations	5104	2:40-4:00	Abhilash Tushir (IIT Delhi)	Discrete Time-Dependent Wave Equation for the Schrodinger Operator with Unbounded Potential					
Chair: Saikatul Haque			Diksha Gupta (IIT Delhi)	Existence and multiplicity of positive solutions for a class of elliptic equations involving subcritical and critical non linearities in the hyperbolic space					
			Uttam Kumar (IIT Kanpur)	Boundary blow up solutions for equations involving fractional p-Laplacian operator					
			Ritabrata Jana (IISER TVM)	Positive solutions for fractional \$p\$- Laplace problem with indefinite sign					
Partial Differential Equations	5104	4:20-4:40	Vinayak Mani Tripathi (IIT Bhilai)	Nehari Manifold Method for Singular Double Phase Problem with Optimal Control on Parameter					
Chair: Debanjana Mitra									

(Venue: Academic Complex - Core 5)

	DAY-2 (December 23, 2023): Contributory Talks								
Subject	Venue	Time	Speaker	Title of the talk					
Partial Differential Equations	5104	3:45-4:05	Sarbani Pramanik (IISER TVM)	On a class of infinite semipositone problems for \$(p,q)\$ Laplace operator					
Chair: Sarika Goyal									
Partial Differential	5104	4:25-5:45	Shubham Garg	Mathematical analysis of coupled mode theory					
Equations			(IIT Jodhpur)						
			Sanjit Biswas	Ground State Solution of a Schordinger Type Equation					
Chair: Debdip Ganguly			(IIT Kanpur)	Involving Anisotropic p-Laplacian Operator via Pohozaev Manifold					
			Jyotirmoy Rana	Study of Unsteady Solute Dispersion in Pulsatile Viscoelastic					
			(IIT Hyderabad)	Fluid Flow					
			Sivaram P	\$L^\infty\$ estimate for degenerate transverse complex					
			(IISc Bangalore)	Monge-Amp\`ere equation and its application					

	DAY-3 (December 24, 2023): Contributory Talks							
Partial Differential	5104	4:25-5:05	Abhijit Shit	Fractional Model for Blood Flow in a Stenosed Artery under				
Equations			(IIT Guwahati)	MHD Effect through Porous Medium				
Chair: Souptik Chakraborty			Yashonanda Mahesh Maurya (SVKM's NMIMS)	Finite Meijer G-transform for Solving Steady-state Temperature Problems				

^{*}Each contributory talk is of 18 minutes duration including discussions