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				
Number Theory	5G2	10:50-12:55	Aditya Karnataki	Families of (ϕ , τ)-modules and Galois representations				
			(CMI Chennai)					
			Guhan Venkat	Rationality of Stark-Heegner points for elliptic curves over				
			(Ashoka University)	imaginary quadratic fields				
			Arnab Saha (IIT Gandhinagar)	Delta geometry and the characteristic polynomial of the				
				Frobenius				
			C. S. Rajan	On non-commensurable isospectral locally symmetric				
			(Ashoka University)	spaces				

DAY-2 (December 23, 2023): Symposia Talks							
Symposia	Venue	Time	Speaker	Title of the talk			
Number Theory	5G2	10:45-12:50	Anirban Mukhopadhyay (IMSc Chennai)	Turan-Kubilius inequality			
			Sneha Chaubey (IIIT Delhi) Density of visible lattice points along polynomials				
			Kummari Mallesham	General Rankin-Selberg problem			
			(IIT Bombay)				
			Sudhir Pujahari	An all purpose Erdos-Kac Theorem			
			(NISER Bhubaneswar)				
		2:40-3:40	Saranya Nair (BITS Pilani Goa)	Newton Polygons and the constant associated with the			
				Prouhet-Tarry-Escott Problem			
			Shamik Ghosh (Jadavpur Uni.)	The Goldbach Graph			

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Symposia Talks								
Symposia	Venue	Time	Speaker	Title of the talk				
Number Theory	5G2	10:45-12:50	Neelam Saikia (IIT	Distributions of hypergeometric functions				
			Bhubaneswar)					
			Gautam Kalita (IIIT Guwahati)	Supercharacter theory on F_p^2 and related exponential				
				sums				
			Atul Dixit (IIT Gandhinagar)	Applications of the Lipschitz summation formula and a				
				generalization of Raabe's cosine transform				
			Divyum Sharma (BITS Pilani)	Number of solutions of Thue inequalities				
		2:40-3:40	Bipul Kumar Sarmah	Dissection of Euler's product				
			(Tezpur University)					
			U. K. Anandavardhanan	Distinguished representations for Galois pairs				
			(IIT Bombay)					

*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				
			Gurinder Singh	Certain Diophantine Equations and New Parity Results for				
Number Theory	5G2	2:40-4:00	(IIT Guwahati)	21-Regular Partitions				
			Shraddha Rajkhowa	Theta-Function Identities, Explicit Values for Ramanujan's				
Chair: Atul Dixit		(Parallel	(Rajiv Gandhi University,	Continued Fractions of Order Sixteen and Applications to				
		Session-I)	Arunachal Pradesh)	Partition Theory				
			Subhrajyoti Bhattacharyya	Parity distribution and divisibility of mex-related partition				
			(NIT Agartala)	functions				
			Pranjal Talukdar	Identities for the Rogers–Ramanujan Continued Fraction				
			(Tezpur University)	and Functions				
			H. Laxmi	Stability Of 2-Class Groups in Z_2-Extension of Certain Real				
Number Theory	5001	2:40-4:00	(IIT Guwahati)	Quadratic Number Fields				
			Sulakashna	Number of F_q-points on Diagonal hypersurfaces and				
Chair: Guhan		(Parallel	(IIT Guwahati)	hypergeometric function				
Venkat		Session-I)	Pranjal Vishwakarma	The Eisenstein homology and cohomology groups for				
			(IISER Pune)	Imaginary quadratic fields				
			Arshay Nimish Sheth	Euler Product Asymptotics for L-functions of Elliptic Curves				
			(University of Warwick)					
Number Theory	5G2	4:20-5:00	Chandan Kumar Vishwakarma	A congruence identity on ordered partition using				
			(CU South Bihar)	permutation polynomials				
Chair: Arnab Saha		(Parallel	Himanshu Sharma	Monogenity of Iterates of Polynomials				
		Session-II)	(IIT Delhi)					
Number Theory	5001	4:20-5:00	Shaik Azharuddin	Transformations for Appell series over finite fields and				
			(IIIT Guwahati)	traces of Frobenius for elliptic curves				
Chair: Neelam		(Parallel	Jagannath Sahoo	Wiener-Ikehara Tauberian Theorem with Improved Error				
Saikia		Session-II)	(IIT Gandhinagar)					

(Venue: Academic Complex - Core 5)

DAY-2 (December 23, 2023): Contributory Talks								
Subject	Venue	Time	Speaker	Title of the talk				
Number Theory	5G2	3:45-4:05	Sumukha S	A Series Associated to Rankin-Selberg L-Function and				
		(Parallel	(IIT Gandhinagar)	Modified K-Bessel Function				
Chair: Sneha Chaubey		Session-I)						
Number Theory	5001	3:45-4:05	Hirakjyoti Das	Congruences Modulo Powers of 2 for Restricted Partition				
		(Parallel	(Gauhati Commerce College)	Triples Due to Lin and Wang				
Chair: Shamik Ghosh		Session-I)						
Number Theory	5G2	4:25-5:45	Nilanjan Bag	Fourth power mean of the general s-dimensional				
			(RMVERI Howrah)	Kloosterman sums mod p				
Chair: Anirban		(Parallel	Ashish Kumar Pandey	On Inequalities Related with a Generalized Euler Totient				
Mukhopadhyay		Session-II)	(University of Allahabad)	Function and Lucas Sequences				
			Shashank Chorge	Extreme values of Dirichlet L-functions at the critical points				
			(IIT Gandhinagar)	of the zeta function				
			Meghali Garg	Equivalent criteria for the Riemann hypothesis for				
			(IIT Indore)	Chandrasekharan-Narasimhan class of L-functions				
Number Theory	5001	4:25-5:45	Flora Jeba S	On K-Facile Perfect Numbers				
		/	(CHRIST Ahmedabad University)					
Chair: Sudhir Pujahari		(Parallel	Archit Agarwal	A g- series identity of Uchimura and its numerious				
		Session-II)	(IIT Indore)	generalization				
			Anirban Roy	Deficient and Near F_k - Perfect Numbers				
			(CHRIST Ahmedabad University)	_				
			Abhishek Jha	On terms in a dynamical divisibility sequence having a fixed				
			(IIIT Delhi)	G.C.D with their indices				

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Contributory Talks							
Subject	Venue	Time	Speaker	Title of the talk			
Number Theory	5G2	3:45-4:05	Anup Haldar (RMVERI Howrah)	Exponential Sums with Multivariable Rational Functions and their Applications to Equidistribution of Solutions of			
Chair: Divyum				Quadratic Congruences			
Sharma							
Number Theory	5G2	4:25-5:25	Shivani Goel (IIIT Delhi)	Explicit zero repulsion of Dirichlet \$L\$-functions			
Chair: Gautam Kalita		(Parallel	Himanshi Chanana	Sum of the triple divisor function and Fourier coefficients of			
		Session-I)	(IIT Kanpur)	SL(3,Z) Hecke-Maass forms over quadratic polynomial			
			Sourav Das	Inhomogeneous Khintchine-Groshev type theorems on			
			(IIT Kanpur)	manifolds over function fields			
Number Theory	5001	4:25-5:05	Guru Sharan N (IIT Gandhinagar)	Modular Relations involving Generalized Digamma Functions			
Chair: Bipul Kumar Sarmah		(Parallel Session-I)	Shruthi Chethan Bhat (MIT, Manipal)	Modular identities on special cases of Ramanujan's general continued fraction			

*Each contributory talk is of 18 minutes duration including discussions