

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

Algebra

(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
Algebra	5G1	10:50-12:55	Indranath Sengupta (IIT Gandhinagar)	Join of affine semigroups
			Ramakrishna Nanduri (IIT Kharagpur)	On componentwise linearity of edge ideals of weighted oriented graphs
			Prosenjit Das (IIST, Thiruvananthapuram)	A criterion to determine residual coordinates of A^2 -fibrations
			Kumari Saloni (IIT Patna)	Buchsbaumness of the associated graded rings of filtrations

DAY-2 (December 23, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Algebra	5G1	10:45-12:50	Jugal K. Verma (IIT Bombay)	Noetherian symbolic Rees algebras
			Neeraj Kumar (IIT Hyderabad)	Rees algebra of maximal order Pfaffians and its diagonal subalgebras
			Mousumi Mandal (IIT Kharagpur)	A study of V -number for some monomial ideals
			Clare D'Cruz (CMI Chennai)	Symbolic powers of ideals, resurgence and Waldschimid constant
		2:40-3:40	Tony J. Puthenpurakal (IIT Bombay)	Bockstein cohomology of mcm modules over Gorenstein isolated singularities
			Vivek Mukundan (IIT Delhi)	On the resurgence and asymptotic resurgence of homogeneous ideals

Algebra

(Venue: Academic Complex - Core 5)

DAY-3 (December 24, 2023): Symposia Talks				
Symposia	Venue	Time	Speaker	Title of the talk
Algebra	5G1	10:45-12:50	Suprajo Das (IIT Bombay)	A density function of the epsilon multiplicity
			Rabeya Basu (IISER Pune)	Projective modules, classical K-theory and linear algebra
			Dipankar Ghosh (IIT Kharagpur)	Auslander-Reiten conjecture and finite homological dimension of Hom
			Soumi Tikader (Diamond Harbour Women's University)	Monic inversion principle and complete intersection

*Each Symposia talk is of 30 minutes duration including discussions

Algebra

(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
Algebra Chair: Clare D’Cruz	5G1	2:40-4:00 (Parallel Session-I)	Aakash Choudhary (IIT Delhi)	Existence of primitive pairs with two prescribed traces over finite fields
			Ayan Ghosh (Jadavpur University)	Trigonometric thin sets and statistically characterized subgroups
			Aniruddha Saha (IIT Kharagpur)	Vanishing of (co)homologies and CM modules of minimal multiplicity
			Dimple Rani Goyal (Panjab University)	A characterisation of matrix rings
Algebra Chair: Ramakrishna Nanduri	5006	2:40-4:00 (Parallel Session-I)	Sugata Mandal (RMVERI, Howrah)	Skew forms and Galois theory
			P M S Sai Krishna (IIT Bombay)	An algebraic characterization of the affine three space in arbitrary characteristic
			Chitra Venugopal (IIT Hyderabad)	Rees algebra of maximal order Pfaffians and its diagonal subalgebras
			Jyotsna Sharma (IIT Delhi)	Fields with primitive elements having primitive image under rational functions
Algebra Chair: Prosenjit Das	5G1	4:20-5:00 (Parallel Session-II)	Shruti Priya (IIT Kharagpur)	A note on Ratliff-Rush filtration, reduction number and postulation number of m-primary ideals
			Praveen Manju (IIT Delhi)	(σ, τ) -derivations of group rings with applications
Algebra Chair: Kumari Saloni	5006	4:20-5:00 (Parallel Session-II)	Tapas Kumar Roy (IIT Kharagpur)	On combinatorial characterization of generators of toric ideal of weighted oriented graphs
			B. Prajapati (Dr. B.R. Ambedkar Uni. Delhi)	Composition of generalized derivations act as a Jordan product in prime rings

Algebra

(Venue: Academic Complex - Core 5)

DAY-2 (December 23, 2023): Contributory Talks				
Subject	Venue	Time	Speaker	Title of the talk
Algebra Chair: Neeraj Kumar	5G1	3:45-4:05	Sandeep Singh (Akal University, Talwandi Sabo)	On the relationship Between different Automorphism Groups of a Finitely Generated Group
Algebra Chair: Vivek Mukundan	5G1	4:25-5:45	Pradeep Rai (IIT BHU)	Quantum codes from skew constacyclic codes over the ring $R = F_q[u_1, u_2, \dots, u_r]/\langle u_i^3 - u_i, u_{ij} - u_{ji} \rangle$
			Himanshu Rewri (IIT Delhi)	Isotropy group of Lotka-Volterra derivations of $K[X_1, \dots, X_n]$
			Tanay Saha (Mizoram University)	On the distance to the nearest non-prime polynomial matrix
			Anoot Kumar Yadav (IIT Patna)	Ratliff-Rush filtration, Hilbert coefficients and reduction number of integrally closed ideals

DAY-3 (December 24, 2023): Contributory Talks				
Algebra Chair: Suprajo Das	5G1	3:45-4:05	P Prakash (MIT, Manipal)	Ideals of S-semigroups
Algebra Chair: Rabeya Basu	5G1	4:25-5:25	Tushar Singh (MNNIT Allahabad)	Existence of S-primary decomposition in S-Noetherian rings
			Shashi Ranjan Sinha (IIT Hyderabad)	On Auslander's depth formula
			Annoy Sengupta (IIT Kanpur)	Hammocks for non-domestic string algebras

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