

INDIAN WOMEN AND MATHEMATICS (IWM)

ANNUAL CONFERENCE 2020-21

CONFERENCE REPORT

Department of Mathematics,
Indian Institute of Technology Dharwad,
March 27-28, 2021.



National
Board for
Higher
Mathematics
www.nbhm.dae.gov.in



॥ सा विद्या या विमुक्तये ॥
भारतीय प्रौद्योगिकी संस्थान धारवाड़
Indian Institute of Technology Dharwad



Committee for
Women in Mathematics

Summary

The IWM Annual Conference 2020-21 was held online hosted by the Indian Institute of Technology Dharwad, on 27-28 March, 2021.

The Executive committee members are as follows :

Executive Committee

- Amber HABIB, Shiv Nadar University
- Anita NAOLEKAR, ISI Bangalore
- Anisa CHORWADWALA, IISER Pune
- B. Sri PADMAVATI, University of Hyderabad
- Gautam BHARALI, IISc
- Geetha VENKATARAMAN, Ambedkar University
- Mahuya DATTA, ISI Kolkata
- Neela NATARAJ, IIT Bombay (Chairperson)
- Nikita AGARWAL, IISER Bhopal
- Pooja SINGLA, IISc
- Riddhi SHAH, JNU
- Sachi SRIVASTAVA, University of Delhi
- Shreemayee BORA, IIT Guwahati
- Vijaylaxmi TRIVEDI, TIFR

The following people were actively involved in organizing the IWM Annual Conference 2020-21.

Scientific Committee:

Prof. Riddhi Shah (Chair), Jawaharlal Nehru University

Prof. Neela Nataraj, IIT Bombay

Prof. Sagnik Sen, IIT Dharwad

Prof. Gautam Bharali, IISc

Prof. Nikita Agarwal, IISER Bhopal

Organizing Committee

Prof. Sagnik Sen (Convenor), IIT Dharwad

Prof. Amlan Barua, IIT Dharwad

Prof. Shreedevi Masuti, IIT Dharwad

Prof. Dhriti Ranjan, IIT Dharwad

Taruni S, Research Scholar, IIT Dharwad

Being an online event, technical support for the set up and framework especially with Zoom trials for all esteemed speakers, monitoring while the conference was live, streaming it in Youtube etc, was much needed and taken care by our technicians.

Technical Experts

Ananda K K, IIT Dharwad

Vince Vincent M, IIT Dharwad

Volunteers

Dipayan Chakraborty

Shiwali Gupta

Tapas Das

Ravi Kumar Patel

There were 448 applications for participation in the conference of which around 160 participated on both days of conference conducted online via Zoom. A website was created for publishing the conference details online

<https://sites.google.com/iitdh.ac.in/iwm2021/home>

Prof. P Seshu, Director, IIT Dharwad presided as the Chief Guest for the Inaugural Session. The session comprised of a welcome address by Prof. Shreedevi Masuti, IIT Dharwad and was followed by addresses by Prof. Riddhi Shah (Chair) JNU, Prof. Neela Nataraj, IWM Executive Committee Chairperson, IIT Bombay and the Chief Guest Prof. P Seshu, Director, IIT Dharwad and the session ended with a thank you note by Prof. Shreedevi Masuti, IIT Dharwad.

The conference mainly comprised of 4 plenary talks, 3 invited talks, 5 talks by young mathematicians. In addition to the talks, there were two breakout sessions conducted parallelly on the topics such as Impact of COVID-19 on Women teaching faculties and Impact of COVID-19 on Women Researchers. The sessions were very interactive and the attendees raised many important and substantial points on both the topics. And the conference ended with the unveiling of IWM logo by Prof. Marie-Françoise with Prof. Shreemayee Bora explaining the meaning of logo and the Vote of Thanks was given by Prof. Sagnik Sen (Convener), IIT Dharwad. All the consented talks were streamed live in IIT Dharwad YouTube channel.

https://www.youtube.com/channel/UCG_M5tP34-u0-Jkr9Q7VDsA

Despite being an online event, the feedback from the attendees were overwhelmingly positive on the aspects of organization of the conference, mathematical content discussed and the utility of the conference to the attendees. The attendees unanimously expressed interest in being a part of more conferences of this kind.

Details of Speakers :

Plenary Speakers

- Prof. Ruchi Das, University of Delhi
- Prof. Sanoli Gun, IMSc Chennai
- Prof. Sujatha Ramdorai, University of British Columbia Canada
- Prof. Carolina Araujo, IMPA Brazil

Invited Speakers

- Prof. Swagata Nandi, ISI Delhi
- Prof. Pallavi Dani, Louisiana State University
- Prof. Thamizharasi Thamizhmani, VIT University

Young Mathematicians

- Dr. Asha Dond, IISER Thiruvananthapuram
- Dr. Debanjana Mitra, IIT Bombay
- Dr. Neeraja Sahasrabudhe, IISER Mohali
- Dr. Ambily Ambattu Asokan, CUSAT Cochin
- Dr. Sneha Chaubey, IIIT Delhi

LIST OF SELECTED PARTICIPANTS

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

<u>S.N</u> <u>o</u>	Full Name	Affiliation
1	Lachit Bora	Kaziranga University
2	Isha Dhiman	Thapar Institute of Engineering and Technology Patiala
3	SRUTHYMURALI	Chennai Mathematical Institute(CMI)
4	DEEPIKA SHARMA	JNU
5	PALAK	IIT MADRAS
6	Barsha Rani hazarika	Kaziranga University
7	Ms. Harindri Chaudhary	Deshbandhu College, University of Delhi, Kalkaji, New Delhi-110019 , India
8	Dr. Sunita Kumawat	Amity University Haryana
9	Dr. Jaspreet Kaur	St. Stephen's College
10	Dr. Giteshwari Pandey	Department of Mathematics, Govt. Tulsi College, Anuppur
11	Dr. Nithya Sai Narayana	N.E.S.Ratna m College, Bhandup(W)

12	Dr. P. Hemalatha	Vellalar College for Women, Erode-12
13	Indhumathi T	SCSVMV
14	Dr. Lakhveer Kaur	Jaypee Institute of Information Technology
15	Ms. Charu Gupta	Dr. B.R. Ambedkar University Delhi
16	Mr. D. ARUNKUMAR	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
17	Sujatha A	Department of Mathematics RV College of Engineering
18	Ms. Salma Rani	PGGC-46, Chandigarh
19	Dr Manasa K J	Vidyavardhaka College of Engineering, Mysuru
20	Ms.S.DIVYAPRIYA	SHANMUGA INDUSTRIES ARTS AND SCIENCE COLLEGE TIRUVANNAMALAI

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

21	Dr. Jayashri B. Patil	Hirasugar Institute of Technology
22	Dr. RAJU M	Dr. Mahalingam College of Engineering and Technology
23	Dr Uppara Manjula	R R INSTITUTE OF TECHNOLO GY
24	Dr Monika Arora	Lovely Professional University, Phagwara-14 4411, Punjab , India
25	Ms. Jinny Ann John	Pondicherry Engineering College
26	Dr. Shailaja Shirkol	Affiliated VTU, Belagavi, Working in SDM College of Engineering and Technology, Dharwad, Karnataka
27	Ms. Neetu Garg	National Institute of Technology Kurukshetra
28	Dr. B. Sundaravadivoo	Alagappa University
29	Yogitaben Madhukantbhai Parmar	Government Science

		College, Gandhinagar
30	Miss Jyoti Ashok Khubchandani	Lecturer
31	Dr. Meenal M Kaliwal	Visvesvaraya Technologica l University, Belagavi
32	Sneha Mavi	Department of Mathematic, University of Delhi.
33	Dr.K.P.UMA	HINDUSTH AN COLLEGE OF ENGINEERI NG AND TECHNOLO GY ,COIMBATO RE
34	Mrs Pallvi Sharma	Research Scholar, PhD, Mathematics
35	Mrs. Nagashree Narayan Bhat	Karnatak University Dharwad
36	Ms Saroja Y. Talwar	Karnatak University
37	Apeksha	Miranda House, University of Delhi
38	Pooja Punyani	PhD defended from IIT Delhi
39	Dr. A. Akilandeswari	Indian Institute of

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

		Technology Gandhinagar
40	Dr.K.ANITHA	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY-RAMAPURAM
41	Sh. Vinay Arora	PANJAB UNIVERSITY, UIET (PUSSGRC) Hoshiarpur
42	G NITHYAKALA	The Madura College, Madurai.
43	JAGBIR KAUR	THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY
44	Lalitha Pattabiraman	Working in SRM UNIVERSITY
45	MANOJ KUMAR C N	Presidency university
46	RAVI PRAKASH	School of Mathematics Jawaharlal Nehru University New Delhi
47	S. Kavitha	Research scholar
48	Rajula Srivastava	University of Wisconsin Madison

49	Anbuwithya Ranganathan	Sri Sarada College for Women Autonomous Salem-16
50	DR. Priyanka Balasaheb Gaikwad	Phulsing Naik Mahavidyalaya, Pusad, District-Yavatmal., State: Maharashtra(India)
51	Dr. Rayees Ahmad	GDC Kupwara jammu and kashmir
52	Adiba Naz	Department of Mathematics, University of Delhi
53	DR AJAY SINGH PARMAR	DEPT. OF MATHEMATICS, SCHOOL OF BASIC AND APPLIED SCIENCES, S.G.R.R. UNIVERSITY, DEHRADUN
54	Dr. Gayathri Palanisamy	PSG College of Arts & Science
55	Uzma Akhtar Mushtaque Ahmed Muchale	Punyashlok Ahilyadevi Holkar Solapur University
56	Amar Deep	Research Scholar

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

57	Dr.G.Thamizhendhi	Sri Vasavi College
58	Mir Aaliya Manzoor	Lovely Professional University, Punjab, India.
59	Dr. Prabhavati Mandalgeri	Karnataka University Dharwad
60	TANNU RAJPUT	Gopalan College of Engineering and Management
61	Shruthi Mahalakshmi S	Bangalore
62	Ms. Anju A	Kerala University
63	Dr. Shashirekha B. Rai	NMAM Institute of Technology, Nitte, Udupi, Karnataka
64	Priyanga Ganesan	Texas A&M University, USA.
65	PRADEEP KUMAR YADAV	Just Completed M.sc.(Mathematics)
66	Aradhana Santosh Bandekar	Ph.D student, Goa University
67	Dr Richa Sharma	Chandigarh university
68	Mamta Sanajykumar Amrutiya	Government Science College, Gandhinagar
69	Kalpana Kuntal	Parul University

70	Shashikant Dwivedi	Avadh law college Barabanki Uttar Pradesh
71	Ms. V. DHIVYA	BHARATHI DASAN GOVERNMENT COLLEGE FOR WOMEN, PUDUCHERY-605003
72	Vikash kumar sahu	Central university of panjab
73	Ms. Ritika Singh	Indian Institute of Technology, BHU
74	Ms. Tejuswini M.	Presidency University, Bengaluru.
75	Akshay Goyal	Msc.(Mathematics) student, /department of Mathematics, Aligarh Muslim University
76	Dr Sumit Gupta	Government Degree College Arki Distt Solan HPn HP
77	Drishti	Punjabi University Patiala
78	PANKAJ KUMAR BHARTI	DEPT. OF MATHEMATICS, JAI PRAKASH

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

		UNIVERSITY CHAPRA, SARAN
79	Ms Payal Ashok Khubchandani	Dr. Vitthalrao Vikhe Patil College of Engineering, Ahmednagar
80	Daniel P	Central University of Tamil Nadu
81	Dr. Deepa C Katagi	Visvesvaraya Technological University, Belagavi
82	Priyanka	Kalinga university, Naya Raipur (Chhatisgarh)
83	Mr YAWAR ALAMGEER	L.N.MITHILA UNIVERSITY DARBHANGA
84	Leela Mantri	Sri Indu college of engineering and technology
85	Ravi Bhimrao Patle	Study
86	Ms. Sruthi Raghoothaman	Cochin University of Science and Technology, Cochin
87	Ms. Anmary Tonny	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

		GY, KERALA
88	Ms ANUSREE SREEDHARAN	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
89	Mr. Pheiroijam Suranjoy Singh	Bodoland University
90	Mr. Abhinav Das	South Asian University
91	Gul Agha Jan	South Asian University
92	Nimra Muqaddss	university of Palermo
93	Dr. Mamoni Dhar	Science College, Kokrajhar
94	Dr Sunita Goyal	JVMGRRPG college. Charkhi Dadri
95	Dr. K. N.Meera	Amrita Vishwavidya peetham
96	Gowtham Priya L	Amrita School of Engineering, Bangalore
97	Vanishree S	CARMEL PU COLLEGE
98	VEENA MATHAD	University of Mysore
99	Dr. Mità V Modha	M D science College, Porbandar
100	Patil Nikeeta Pravin	Jalgaon
101	Ms. Pratibha Verma	MNNIT Allahabad

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SELECTED PARTICIPANTS**

102	Dr. Rupal C. Shroff	MIT World Peace University, Pune
103	Jyoti Singh	Visvesvaraya National Institute of Technology, Nagpur
104	Pushpa N	REVA University
105	Dipika Kundu	I am pursuing M.Sc in pure mathematics at Calcutta University (Ballygunge Science College)
106	ANGIRA PAIK	Msc in MATHEMATICS
107	Chaity das	Study
108	Dr. Madhusmita Sahoo	KIIT Deemed to be University
109	Kaustav Das	NBU
110	Ms. Amruta Vishwas Shinde	PhD research student at Department of Mathematics, Savitribai Phule Pune University
111	Poulami Bose	Study
112	Dr. Smita Avinash Kandekar	Savitribai Phule Pune University, Pune 411007

113	SOUMYASHREE ROUTRAY	Studying MSC at Fakirchand college under CU
114	RAHUL KAR	ASSISTANT TEACHER OF MATHEMATICS OF SPRINGDALE HIGH SCHOOL
115	Dipa Pal	Ramananda college, Bankura University
116	Tajalla S. Ansari	Bsc with maths at RTM nagpur university, nagpur
117	Vaishali Manish Joshi	MIT World peace University Pune
118	Ramada Ashish Sandu	Faculty of Mathematics at MITWPU, Pune
119	Saraswati Das	Regional Institute of Education, NCERT, Bhopal
120	Dr. Shraddha Ingale	P.G.Dept. of Mathematics, New Arts, Commerce and Science College, Ahmednagar, Maharashtra

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SELECTED PARTICIPANTS**

121	Anant Bhausahab Dhas	At Handalwadi Tal-Pathardi Dis-Ahemdnagar
122	RAJASHRI BIBHISHAN PANDIT	DEPT. OF MATHEMATICS Pratishtan collage Paithan Dist Aurangabad
123	Ms. Kavita Jain	Chaudhary Devi Lal state Institute of Engineering and Technology, Panniwala Mota
124	Swati Rani Hait	Research scholar IIT kharagpur
125	Dr. Asha S K	Karnatak University, Dharwad
126	Dr. Chandrali Baishya	Tumkur university
127	Manisha Krishna Naik	Tumkur university
128	Dr.(Smt.) Renukadevi Sangappa Dyavanal	Karnatak University - Dharwad
129	Dr.Bhavika Tailor	Work
130	Dr. Shailesh Mishra	Allenhouse Institute of Technology, Kanpur, Uttar Pradesh
131	Baisali Patra	CET

132	Shanthakumari Y	Vijayanagar Sri Krishnadevar a University, Ballari
133	Monalisa Mohapatra	CET, Bhubaneswar
134	Dr.Veena Singh	M.L.K.(P.G.) College, Balrampur, affiliated to Siddharth University, Kapilvastu, Siddharth Nagar, U.P.
135	M.Sivasri	Study
136	Dr. Nandeesh K. C	University of Mysore
137	Ms.A.Priya	Dhirajlal Gandhi College of technology
138	Dr KHALID MEHRAJ	Baramulla
139	Dr.Minirani S	NMIMS Deemed to be University
140	Kalali Manusha	Tara Government College
141	Dr. Vilas Bhanudas Bandgar	Uma Shikshanshas tra Mahavidyala ya B. Ed. Pandharpur
142	Mohammed sohel	No
143	Dr. Neha Prabhu	IISER Pune
144	Goudicherla Chaithanya	Thara Degree College ,Sangareddy

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SELECTED PARTICIPANTS**

145	B mounika	Degree
146	Mandala mohan Sai subramanyam	Tara degree college (A) , Sangareddy.
147	Mukesh Kumar	Ph.D
148	A.PRAMODH REDDY	Sri Indu college of Engineering and Technology
149	Mr. MANTHESHA	DOSR IN MATHEMATICS, TUMKUR UNIVERSITY
150	Umadevi K B	Tumkur University
151	Singitham shirisha	Tara govt college
152	Nikita dusane	Malegaon
153	Dr. Pallvi Mahajan	Beant College of Engg. & Tech. Gurdaspur, Punjab
154	Dr Sarika Jain	Asst prof
155	Elitem srilatha	Study
156	Dr. Divya G. Adalja	Marwadi University
157	Dr.K.Kalaiarasi	Bharathidasan University
158	MRITUNJAY KUMAR DUBEY	GODDA COLLEGE, GODDA
159	Vadtya Srikanth	Tara govt college sangareddy

160	Dr.R.Vidhya	E.G.S.Pillay Engineering college
161	Mr. Akash Gaur	Delhi University, Delhi
162	MASTERS CONSULTANCY	University
163	ARVIND KUMAR	PRIVATE COACHING
164	Dr. Mamta Kumari	DCT's Dhempe College of Arts & Science, Panaji-Goa
165	Laxmi Rajpati Vishwakarma	K.S.K W Arts, Science and Commerce college
166	V MANJU BHASHINI	Vivekananda college of technology for women tiruchengode Namakkal
167	Prashant Kumar Pandey	Indian Institute of Technology (BHU) Varanasi
168	Ms Sujata Desai	DCT's Dhempe College Of Arts And Science
169	Kalvagadda saiteja	Tara government degree College
170	Mrs. Savita	Maharshi Dayanand

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

		University, Rohtak
171	DIVYA S Ms	PSG College of Arts and Science
172	Mr. Mohabbat Ali	PhD Scholar
173	Mansi sharma	MSc. Student (lovely professional University)
174	Rika Naskar	Banaras Hindu University
175	Dr. mansha kotwani	Faculty in an Engineering College
176	Ms. Amrinder Kaur	University of Hyderabad
177	Reetu	lovely professional university Jalandhar
178	Dr. Sarita Choudhury	Science College (Autonomous) Hinjilicut, Ganjam, Odisha-7611 02
179	Ms. AISHWARAYA	IIT JODHPUR
180	Anima Nagar	IIT Delhi
181	Dr Srijanani Anurag Prasad	Indian Institute of Technology Tirupati

		Associate Professor, Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, Thiruvarur, 610005
182	Dr.C.Vijayalakshmi	
183	Harsha Gupta	Chegg Inc.
184	Er. Nishant Misra	I work with PBPL. I have been interacted with application of engineering mathematics upto M.Tech level (HBTU, Kanpur))
185	Dr. Anupam Gumber	Indian Institute of Science Bangalore
186	Aditi Kulkarni	Institute of Chemical Technology
187	Mr. Sumit kumar	Jawahar lal nehru University, New Delhi
188	Meghana D	Central University of Tamil Nadu
189	Dr. Akshaa Vatwani	IIT Gandhinagar
190	Mr.Chamkaur Singh	Punjabi University Patiala

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

191	RAMANAMOORTHY KANDULA	B V RAJU INSTITUTE OF TECHNOLO GY
192	Dr Manasi Kumari Sahukar	Gandhi engineering college Bhubaneswar
193	Ms.Manjinder Kaur	Department of Mathematics , Lyallpur Khalsa College for Women, Jalandhar
194	Dr. C. K. Sivashankari	RMK Enginnering College.
195	Gayatri Pany	University of Central Florida
196	Dr. Punam Gupta	Dr. Harisingh Gour University
197	Dr. S. Nithya	Manonmania m Sundaranar University
198	Dr. Gurninder Singh Sandhu	Patel Memorial National College, Rajpura
199	Dr Sita Ram	Chitkara University
200	Vinita Devi	Bhakt Darshan Gov. P.G. College, Jaiharikhal, Uttarakhand

201	Ms. A Hannah Joselin	Anna University
202	Walaa Nabil Taha Faspous	Tezpur University - Ph. D. student at Mathematic department
203	Anjali Patel	NIT SILCHAR
204	Dr Jicy N	Former Assistant professor on contract, Farook College, Kozhikode
205	DR. MEETU BHATIA GROVER	Department of Mathematics, Miranda House, University of Delhi
206	Ms. K. Poongothai	Ramanujan Institute for Advanced Study in Mathematics, University of Madras
207	Kumari Manju	Mnnit Allahabad
208	PREMAKUMARI.K.R	COLLEGE OF ENGINEERI G ATTINGAL, THIRUVAN ANTHAPUR OM
209	Ms. Manushi Gupta	IIT (BHU), Varanasi

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

210	Pallab Pal	Mahisadol raj college
211	Dr D KAVITHA	Audisankara College of Engineering and Technology, Gudur
212	Praveen Manju	PhD Student, Indian Institute of Technology Delhi
213	Masuma Khatun	Aliah University
214	Mr. Ravikumar R	PES UNIVERSITY -ELECTRONIC CITY CAMPUS
215	Miss Swati Yadav	IIT BHU Varanasi
216	Prof. Vishalsingh Chauhan	DIEMS, Aurangabad
217	Akasmika Panda	National Institute of Technology Rourkela
218	Neelanjana Rajput	H.N.B.G University, Uttarakhand
219	Shivani Saini	Thapar Institute of Engineering and Technology
220	Vinod Trivedi	Bhavan's Science college(RTD), Ahmedabad

221	Payel Sarkar	Dum dum motijheel collage
222	Anita Tomar	Government Degree College Thatyur (Tehri Garhwal) Uttarakhand, India
223	NANDHINI MOHAN	BHARATHI AR UNIVERSITY
224	Ms. SHRILEKHA ELANGO	Bharathiar University, Coimbatore.
225	Ms. R. Premalatha	Bharathiar University
226	KALAMANI. D	Bharathiar University PG Extension and Research Centre, Perundurai, Erode, Tamilnadu
227	Dr. Rachana Desai	Assistant Professor, Somaiya College of Engineering, Mumbai
228	Dr. Shikha Maheshwari	Jagan Nath University
229	Ms.Amritha V.C.	Sree Ayyappa College for Women, Chunkankada i.

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

230	Dr. L Jyotsna	SRI SATHYA SAI UNIVERSITY FOR HUMAN EXCELLENCE, KARNATAKA
231	Ms. Meena Joshi	Hemwati Nandan Bhuguna Srinagar Garhwal University Uttarakhand
232	Dr. Manjil Saikia	Cardiff University
233	B. Harika	Lecturer in Mathematics, TSWRDCW Warangal West
234	Dr. V. MEENA	Madurai Kamaraj University Constituent Model Arts and Science College Tirumangalam Madurai Tamil Nadu India
235	Ms. S. Loganayaki	Sri GVG Visalakshi College for women
236	Silpi Hazarika	Rajiv Gandhi University
237	Dr. Mamta Agrawal	VIT Bhopal University

238	Y Sailaja	RV College of Engineering
239	DHARMALINGAM M	NIT Pudhucherry Karaikal 609609
240	Dr.K.Meenakshi	CMR Institute of Technology Bengaluru
241	Mr. Chander Mohan	Lovely Professional University
242	MANJU RANI	PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, SAMALKHA, PANIPAT
243	Dr. Prerna Pathak	SAGE University Indore
244	ADIL AHMAD	Mulana Azad national Urdu university, Hyderabad
245	Aliya Naheed Kazmi	BML Munjal university
246	Dr A. Tanuja	Siddaganga Institute of Technology
247	Dhok Pallavi Ramhari	Mahatma Basweshwar College, Latur
248	Debamita	JNU, Delhi.
249	Debamita Chatterjee	JNU, New Delhi.

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

250	Ms. Shivani Sharma	LPU, Jalandhar
251	Dr V RENUKA DEVI	Central University of Tamil Nadu, Thiruvapur
252	Dr. Hema Sukhija	Arya Kanya Mahavidyalya, Shahabad (Markanda) affiliation by Kurukshetra University Kurukshetra
253	Ms. Swati Gaba	University of Illinois at Chicago
254	Jisha CR	research scholar
255	BHASKERREDDY KETHIREDDY	kiit University Odisha
256	DR. SHAINI P	CENTRAL UNIVERSITY OF KERALA
257	Manvi Kaushik	IITRAM, Ahmedabad
258	Mrs. Suguna M S	P. G. Department of Mathematics, MES College of Arts, Commerce and Science, Malleswaram , Bengaluru-56 0003
259	Rekha K	Bengaluru City University

260	SHELLY VERMA	Lovely Professional University (phagwara)
261	Miss. Mahinshi	Jawaharlal Nehru University
262	EUREKA PATTNAYAK	UTKAL UNIVERSITY, VANI VIHAR, BHUBANES WAR, ODISHA
263	Debananda Chaulia	Utkal University, Va ni vihar, Bhuban eswar
264	Mukesh Sahu	PG Department of Mathematics Utkal University, Vanivihar, Bhubaneswar
265	Simran Kaur	Msc Mathematics
266	Ms. KAMAT DEEPALI GANGADHAR	SYBSC MICROBIOL OGY , SICES AMBERNAT H FROM UNIVERSIT Y OF MUMBAI
267	DHIVVIYANANDAM I	St Xavier college
268	Miss. LIPI JAIN	Indian Institute of

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

		Technology (B.H.U)
269	Dr. PABITRA KUMAR JENA	Berhampur University, Odisha
270	Dr. Gurleen Kaur	Post-Doctoral Fellow (SERB N-PDF), Indian Institute of Science Education and Research Mohali, India
271	Arpit Bansal	Jawaharlal Nehru University
272	Apeksha Prajapati	Nirmala College Ranchi
273	Mr. YOGESH DADHICH	MANIPAL UNIVERSIT Y JAIPUR
274	Mr. Amit Sharma	Assistant Professor in Mathematics at JC DAV College Dasuya, Punjab, India
275	Pooja Rani	JC DAV College, Dasuya
276	Maninder Kaur	Department Of Mathematics , JC DAV College Dasuya , Punjab, India

277	Manpreet Kaur	I study at J.C.D.A.V College, Dasuya.
278	Shanu	Department of mathematics,j c dav college ,dasuya,punja b
279	Gurjeet Kaur	J.C.D.A.V.Co llege , Dasuya (Hsp)
280	sukriti	study
281	Simranjit Kaur	Study
282	Sonia	J.C.D.A.V College,Dasu ya
283	Amandeep kaur	JCDAV college dasuya
284	Gurdeep kaur	jc.dav college dasuya
285	Sonia	JC DAV College Dasuya
286	Anita Devi	JC DAV College ,Dasuya
287	Kiranpreet Kaur	JCDAV college Dasuya
288	Manisha rani	JC. DAV college Dasuya
289	Abhishek	JC DAV College dasuya
290	Taniya	JC DAV college dasuya

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

291	Nisha Rani	JC DAV college Dasuya
292	Singhpreet Kaur	JC DAV College, Dasuya, Punjab, India
293	Anmol Kumar	Home
294	Bobby	Department of mathematics, jc dav college dasuya, punjab, india
295	Harkrishan	JCDAV college dasuya
296	(Vibha)	Jcdav college dasuea
297	Darshpreet Kaur	JC DAV College, Dasuya, Punjab, India
298	Name-loveleen kaur	JC DAV college Dasuya
299	NIDHI SHARMA	JCDAV COLLEGE DASUYA
300	Sukhwinder Kaur	JC DAV College Dasuya
301	Nancy Sharma	Study
302	Nitika	Study
303	Manjit kaur	Study
304	Shawani	Department of mathematics, J.C.D.A.V. College

		Dasuya, Punjab, India
305	Karni Devi	Study
306	AGAM	STUDENT OF JC DAV COLLEGE DASUYA
307	Sandeep kaur	Study
308	Sharnpreet Kaur	JC DAV College Dasuya
309	Kajal Chib	JC dav college, Dasuya.
310	Shalu Salaria	JC DAV College Dasuya
311	Ms. Raveena Ganash	Jawaharlal Nehru University
312	Gurleen Kaur	JC DAV College Dasuya
313	Sonali Sharma	Jcdav college dasuya
314	Najuk Devi	JC DAV College Dasuya , Punjab , India
315	Harmanpreet Kaur	Jcdav clz dasuya
316	Harpreet Kaur	JCDAV College dasuya
317	Rupam	Jc dav college, dasuya
318	Radha Rani	JC DAV College Dasuya

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SELECTED PARTICIPANTS**

319	Kajal	Study
320	Gurkiran kaur	J.C. D.A.V College Dasuya
321	Megha Varshney	B.M.G. Degree College Chandausi
322	Dr Tripti Dixit	SDS University uttarakhand
323	Uzma Mubeen	Central university of Kashmir, Ganderbal
324	Dr. V. Divya	Institute of Chemical Technology - Mumbai
325	Mr. TEJPAL	IIT Ropar
326	Indrani Y.R.L., Assistant Professor	Government Science College Autonomous
327	DR. RAM KRISHAN	Govt. Degree College Kathua
328	J. Kokila	Assistant Professor, Department of Statistics and Applied Mathematics, Central University of TamilNadu, Thiruvarur - 610005
329	Priyanka Sthavarmath	Research Scholar
330	Dr. Keerthi Mirajkar	Assistant professor

331	Ms. Sakeena Bano	Central University of Kashmir
332	Rajvinder(m.sc)	Student
333	Ms. Muskan Bansal	NIT, Warangal
334	Ankita *	J.C.DAV college ,dasuya ,Punjab
335	Ms. Raihana Rashid	Department of Mathematics, Central University of Kashmir, Ganderbal
336	Tanvi	Jawaharlal Nehru University, New Delhi
337	L Rama Mohan Reddy	Rajiv Gandhi University of Knowledge Technologies
338	Dr.S.Vasundhara	Hyderabad jntuh
339	Subhash Kumar	Meerut College,Meer ut
340	AYEESHA BANU W	Bengaluru City University
341	Dr. Haseena A	Govt College Chittur
342	Dr. Soshal	Shaheed Mangal Pandey Govt. Girls PG College, Meerut

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

343	Gayatri P B	Yuvaraja College Mysuru
344	Ms. Ramandeep Kaur	Mata Gujri College Fatehgarh Sahib, Punjab
345	Mr. Moirangthem Rameshwar Singh	Kumbi College, Kumbi
346	Sindhu J Achar	Tumkur University
347	Shobha K C	Tumkur University
348	Dr. Harinakshi Karkera	Manipal Institute of Technology, MAHE, Manipal
349	Garima Yadav	Hans raj college, University of Delhi
350	Diksha Gupta	IIT(BHU)
351	Dr Aparna Chaturvedi	Mayo International
352	A S Maragadam	Vijayanagara shree krishna devaraya university
353	RAVINA. R	Prepare to csir Net
354	Mr. Shyamsunder	MNIT, Jaipur
355	Anila.S	PhD. Research scholar at Amrita vishwa vidyapeetham, Ettimadai, Coimbatore.

356	Suman Kaswan	BITS PILANI
357	Ipsita Rajwar	IIT Kharagpur
358	Dr.P.GOMATHISUNDARI	Rajah Serfoji Government College
359	Palanisamy A	Periyar University
360	Mohit	Department of Mathematics, University of Delhi
361	PALANISAMY A	Periyar University
362	Ms. Clare D'Cruz	Chennai Mathematical Institute
363	Ms.Yashodha S	Bharathiar University
364	Ms. C. Arruna Nandhini M.Sc.	Government Arts College, Coimbatore - 641018
365	Dr. Priyanka Grover	Shiv Nadar University
366	Sushil Singla	Ph.D. student, Shiv Nadar University
367	Lalithasree.T	Amrita school of Engineering, Ettimadai, Coimbatore
368	Ms. Swati Antal	HNB Garhwal University, BGR Campus Pauri Garhwal

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

		Uttarakhand India
369	Miss Smita Negi	HNB Garhwal University
370	Sarika Uddhav Devhare	No
371	Ms Akshata Morajkar	Karnatak University
372	Ms. Drishti Rajesh Singh	Shri Shivaji Science College, Nagp ur
373	Revathy J M	National Institute of Technology Karnataka
374	Md Rashid Raza	SOS MANUU Hyderabad
375	MD NASIR IQUBAL	MANUU HYDERABA D
376	Mrs. Anuradha V Deshpande	Karnatak University Dharwad
377	Dr.SAYED ANISFATIMA H	Associate professor in Govt. College Dept. Of Mathematics
378	Premakumari R N	Tumkur University
379	Mrs. SUBRAMANYESWARI M	VAGDEVI VILAS COLLEGE
380	Shivani Goel	IIIT Delhi
381	Dr Megha Khandelwal	Central University of Karnataka, Kalaburagi

382	Akanksha Gupta	IIT ISM Dhanbad
383	Anum Mohammedi	Central University of Karnataka
384	AMLAN KANTI HALDER	DEPARTME NT OF MATHEMAT ICS, PONDICHE RRY UNIVERSIT Y, PUDUCHER RY
385	Murugan P	Pondicherry
386	Ms Kajal	Indira Gandhi University
387	Dr Sheenu Nayyar	J. P. S vocalional and Technical Institute
388	Ms. Ankita Mitra	G H Raisoni College of Engineering, Nagpur
389	Dr. Deepali Brijlal Banswal	B. P. Arts, S. M. A. Science & K. K. C. Commerce College Chalisingaon
390	Dr. Benaki Lairenjam	REVA University
391	Ms. Isha	Doing masters in mathematics
392	Revathy J M	National Institute of Technology Karnataka

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

393	Jain M Francis	National Institute of Technology Karnataka, Surathkal
394	MEGHA P	NITK, SURATHKAL, KARNATAKA.
395	Mr. Dipayan Chakraborty	Indian Institute of Technology, Dharwad
396	Ms. Rashi Sanjay Lunia	The Institute of Mathematical Sciences
397	Mr.Amit kumar arya	work
398	THIRUNAVUKKARASU.S	Working
399	Harshal Sharma	GDC Nowshera
400	Prof. Darshana Kunal Valani	Marwadi education Foundation Group of Institutions
401	Archna Kumari	Indian Institute of Technology, Delhi
402	Barkha	Department of Mathematics, University of Delhi
403	Manideepa Saha	Presidency University
404	SURBHI	IIT DELHI

405	Nandita Roy	Department of Mathematics and Computing, IIT Guwahati
406	Ranjani Amrapali Vishwanath	Christ (Deemed to be University)
407	Ardra A	IIT Palakkad
408	Dr. Parangama Sarkar	IIT Palakkad
409	Dr. Jyothsnaa Sivaraman	Chennai Mathematical Institute
410	GAYATHRI V	Work
411	Mr. Kalika Prasad	Central University of Jharkhand
412	Diksha	Guest lecturer in Hindu kanya mahavidhya
413	ADODARIYA TANVIBEN HARESHBHAI	Study
414	Dr. Monika Srivastava	Rajasthan
415	Mr. Showkat Ahmad Bhat	Dr. A. P. J. Abdul Kalam University, Indore
416	Firdous Ahmad Mala	GDC Sopore
417	Miss Munesh Kumari	Central University of Jharkhand
418	Ms. Labani Sarkar	Study
419	Ms. Monisha Panjwani	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

**INDIAN WOMEN AND MATHEMATICS
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SELECTED PARTICIPANTS**

420	Gurwinder	SSJGPGCS
421	Borse Rupali Rajendra.	A.S.C . College Chopda.
422	Shivanshi Gupta (Freelancers)	Freelancer in Chegg India
423	Manish Jain	Ahir College, Rewari
424	Mrs.Geetika Sharma	BLJS COLLEGE TOSHAM ,BHIWANI,H ARYANA
425	Ms. Rupali Subhash Paliwal	MGSM'S ASC College, Chopda
426	Ms Sumayya Rizwan	Jamia Millia Islamia
427	Shikha sharma	Post graduated
428	Dr. Anu Devgan	Multani Mal Modi college Patiala
429	Ms. Chinthu U	Kerala University Department, Kariavattom
430	ABHIJITH O	Study
431	SARVESH KUMAR	IIT Roorkee
432	Mr.Achyut Ankush Chavan	BP Arts SMA Science KKC Commerce College Chalisingaon dist Jalgaon
433	Pooja Nanaji Thoke	Arts science and commerce clg chalisingaon

434	Nikita Vijaysing Shisode	B. P. Arts S.M.A.Sci.K. K.C.Commer ce college Chalisingaon comm
435	Amita Dwivedi	University of Allahabad
436	Mr. VIJAI KUMAR PATHAK	Department of Mathematics, School of Advanced Sciences, VIT University, Vellore, Tamilnadu, India, 632014
437	Dr Charu Arora	Bharati Vidyapeeth College of Engineering
438	RAKESH	GOVERNMENT PRIMARY SCHOOL-B ANAULI (PIN CODE- 262580), DISTRICT-C HAMPAWAT , UTTARAKH AND
439	Dr Shweta Gandhi	Miranda House University of Delhi
440	Dr.G.Kavitha	Work
441	Annu Mariya Joseph	Kalasalingam Academy of Research and Education

**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
SELECTED PARTICIPANTS**

442	Priyadarsani panda	I am studying at Utkal University in mathematics hons.
443	Dr Summiya Parveen	College of Engineering Roorkee
444	Ankita Valmik Jejurkar	Student
445	Sayan Ghosh	Vidyasagar University
446	Dr. THULASIMANI T	Bannari Amman Institute of Technology
447	Mr. SOURABH BHANOT	DOE DELHI
448	Abdul Aijaz	Telangana University dichpally nizamabad

SCHEDULE OF TALKS

Timetable:

Annual conference of IWM 2020-21

27 March, 2021 - Saturday

Time	Title/Event	Speaker	Chair
09.00-09.30	Inaugural ceremony with Chief Guest : Prof. P. Seshu (Director, IIT Dharwad)		
09.30-10.30	Class groups and Mordell-Weil groups.	Sujatha Ramdorai	Sanoli Gun
10.30-11.30	Breakout session		
11.30-12.15	Estimating nearly periodic signals.	Swagata Nandi	Monika Bhattacharjee
12.15-12.45	Urn models and their applications.	Neeraja Sahasrabudhe	Monika Bhattacharjee
12.45-15.00	Lunch break		
15.00-15.30	Adaptive finite element method for second order linear non-self-adjoint elliptic problems.	Asha Dond	B.S. Padmavati
15.30-16.00	Stabilization of time-periodic flows.	Debanjana Mitra	B.S. Padmavati
16.00-16.30	Break		
16.30-17.30	Symmetries in algebraic geometry.	Carolina Araujo	Geetha Venkataraman

28 March, 2021 - Sunday

Time	Title/Event	Speaker	Chair
09.00-09.45	Stallings folds: a topological approach to free groups and beyond.	Pallavi Dani	Sachi Srivastava
09.45-10.45	Product of prime ideals in ray class groups.	Sanoli Gun	Sachi Srivastava
10.45-11.45	Breakout session		
11.45-12.15	Distribution of sequences in number theory.	Sneha Chaubey	Shreedevi Masuti
12.15-12.45	Dickson-Siegel-Eichler-Roy elementary orthogonal groups.	Ambily A. Asokan	Shreedevi Masuti
12.45-15.00	Lunch break		
15.00-16.00	Broadening horizons of transitivity and the butterfly effect in dynamical systems	Ruchi Das	Nikita Agarwal
16.00-16.45	Discrete integrability - blending Nevanlinna theory and singularity confinement	Thamizharasi Thamizhmani	Nikita Agarwal
16.45-17.30	Closing ceremony with Guest of Honor: Prof. Marie-Françoise Roy		

**BOOK
OF
ABSTRACTS**



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**INDIAN WOMEN AND MATHEMATICS
ANNUAL CONFERENCE 2020-21
MARCH 27-28, 2021.**



॥ सा विद्या या विमुक्तये ॥
भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

Titles & Abstracts

Plenary Talks

Speaker : Prof. Sanoli Gun (IMSC Chennai, India)

Title : Product of prime ideals in ray class groups.

Abstract : A celebrated theorem of Linnik states that there exists a constant b such that for co-prime positive integers a and q , there exists a prime $p < q^b$ which is congruent to $a \pmod{q}$. This has been refined by Xylouris who proved that b can be chosen to be 5.

In this talk, we report on an ongoing work with Jyothsna Sivaraman and Olivier Ramare where we consider variants of this theme on number fields.

Speaker : Prof. Carolina Araujo (IMPA Brazil)

Title : Symmetries in Algebraic Geometry

Abstract : In this talk I will discuss symmetries of algebraic varieties. When studying a projective variety X , one usually wants to understand its automorphisms. Conversely, the structure of the group of automorphisms of X encodes relevant geometric properties of the variety. After describing some examples of automorphism groups of projective varieties, I will discuss why the notion of automorphism is too rigid in the scope of birational geometry. We are then led to consider another class of symmetries of X , its birational self-maps. Birational self-maps of the projective space \mathbb{P}^n are called Cremona transformations. Describing the structure of the group of Cremona transformations of the plane is a classical problem that goes back to the 19th century. In higher dimensions, not so much is known, and a natural problem is to construct interesting subgroups of the Cremona group.

I will end the talk by discussing a recent work with Alessio Corti and Alex Massarenti, where we investigate subgroups of the Cremona group consisting of symmetries preserving special objects.

Speaker : Prof. Ruchi Das (University of Delhi, India)

Title : Broadening horizons of Transitivity and The Butterfly Effect in Dynamical Systems

Abstract : Transitivity and The Butterfly Effect (also known as sensitivity), key ingredients of Chaos, are of great importance in the qualitative study of dynamical systems. The concept of transitivity was introduced by Birkhoff in 1920 and is also regarded as an irreducibility condition as one cannot decompose a transitive system into two disjoint sets with non-empty interiors which do not interact under the transformation. It is the basis for the study of several important decomposition theorems such as Smale's Decomposition Theorem. In 1971 Ruelle introduced sensitivity which characterizes the unpredictability of chaotic phenomena. If a system is sensitive, then a small change in the initial conditions may lead to a drastic change in the dynamics of the system. To measure the interval in which the system remains sensitive, interesting and useful stronger forms of sensitivity have been studied.

Most of the real-world phenomena like weather and climate prediction, heartbeat patterns, spread of infectious diseases, etc., are time-variant, that is, they involve time dependent parameters, modulation and various other effects. Consequently, many of the well-established methods applied for autonomous systems are no longer applicable for time dependent phenomena and hence require an appropriate extension, giving rise to the notion of non-autonomous dynamical systems, as introduced by Kolyada and Snoha in 1996. Moreover, in recent years there has been a significant study of dynamics of semiflows under general monoid actions. We shall discuss some recent results on stronger forms of transitivity and sensitivity for non-autonomous discrete systems and for semiflows.

Speaker : Prof. Sujatha Ramdorai (University of British Columbia, Canada)

Title : Class groups and Mordell-Weil groups.

Abstract : Class groups of algebraic number fields are important invariants in Algebraic Number theory. Rational points on Elliptic curves defined over a number field are of tremendous interest as well. This talk will explain how Iwasawa theory is useful in studying these objects, and the role that Iwasawa theory plays in the finer analysis of the arithmetic of elliptic curves over number fields.

Invited Talks

Speaker : Prof. Thamizharasi Thamizhmani (VIT University, India)

Title : Discrete Integrability -Blending Nevanlinna Theory and Singularity confinement

Abstract : Fundamental theorem of algebra is an important development in algebra- for polynomials. It's generalisation to entire functions after many years is the popular Picard's theorem in complex analysis. The expected such development to meromorphic functions was an open problem for nearly 100 years ,which was finally solved by Ralph Nevanlinna (Finland Mathematician in the year 1925) considered to be the greatest development in Mathematics in 20 th century, popularly known as Nevanlinna theory.

How this theory is used to give an Integrability criteria for Discrete systems is explained in this lecture.

Speaker : Prof. Pallavi Dani (Louisiana State University, USA)

Title : Stallings folds: a topological approach to free groups and beyond

Abstract : In a highly influential 1983 article, Stallings introduced the notion of "folds of graphs" to study subgroups of free groups. He used such folds to associate, to each subgroup of a free group, a canonical graph that carries the essential information about the subgroup. This topological perspective provided clean new proofs of many classical theorems on subgroups of free groups, and is now an indispensable tool which has been adapted to other classes of groups.

I will describe this theory in the context of free groups, and then mention some generalizations, including recent joint work with Ivan Levcovitz on subgroups of right-angled Coxeter groups.

Speaker : Prof. Swagata Nandi (ISI Delhi, India)

Title : Estimating nearly periodic signals

Abstract : Periodic and nearly periodic signals are observed in our daily life and in many areas of science and technology. In this talk, some signal processing models, for example, sinusoidal model, chirp model, random amplitude chirp models will be discussed which can be used for nearly periodic data. Several examples will be considered where such models can be used.

Talks by Young Mathematicians

Speaker : Dr. Asha K Dond (IISER Thiruvananthapuram, India)

Title : Adaptive finite element method for second order linear non-self-adjoint elliptic problems.

Abstract : The adaptive finite element method (AFEM) is an elegant and powerful technique used to compute the numerical solution to initial and boundary value problems with a minimal computational cost. The explicit residual-based adaptive estimator allows reliable and efficient error control and motivates adaptive discretization, improving the empirical convergence rates. The quasi-optimal analysis of AFEM provides the mathematical foundation for this optimal behavior of AFEM.

In the talk, the quasi-optimal analysis of AFEM will be discussed for the lowest-order Raviart-Thomas mixed FEM for general second- order linear elliptic problems. The standard adaptive mesh-refinement strategy faces difficulty in the flux error control for these problems. Therefore, to achieve optimal convergence, a separate marking strategy: a split of a Dörfler marking for the estimator and some optimal data approximation strategy for the data approximation term has been utilized.

Speaker : Dr. Debanjana Mitra (IIT Bombay, India)

Title : Stabilization of time-periodic flows

Abstract : In the first part of my talk, I shall explain the stability and stabilizability of an ODE around a periodic trajectory. A characterization of the stability of ODEs around a periodic trajectory using the Poincaré map and Floquet theory will be discussed.

In the second part of my talk, I shall explain the extension of the idea to the parabolic type of PDEs. In particular, as an application, the stabilization of the incompressible Navier-Stokes equation around a time-periodic trajectory will be discussed.

Speaker : Dr. Neeraja Sahasrabudhe (IISER Mohali, India)

Title : Urn Models and their applications

Abstract : Urns models or Balls and Bins are classical problems in probability theory. I will discuss some well known results for urn models and their application to network theory. Finally, I will give a quick overview of interesting problems and recent developments in the area.

Speaker : Dr. Ambily Ambattu Asokan (CUSAT Cochin, India)

Title : Dickson-Siegel-Eichler-Roy Elementary orthogonal groups

Abstract : In this talk, we shall discuss a generalized version of elementary orthogonal groups. Let R be a commutative ring in which 2 is invertible. Let Q be a non-singular quadratic space over R of rank n and let $\mathbb{H}(R)^m$ denotes the hyperbolic space. We consider the elementary orthogonal transformations of the quadratic space $Q \perp \mathbb{H}(R)^m$. These transformations were introduced by Amit Roy in 1968. Earlier forms of these transformations over fields were considered by Dickson, Siegel, Eichler and Dieudonné. We call the elementary orthogonal transformations as *Dickson–Siegel–Eichler–Roy elementary orthogonal transformations* or *Roy’s elementary orthogonal transformations*. The group generated by these transformations is called DSER elementary orthogonal group. We shall discuss the structure of this group.

In 1976, Vaserstein defined elementary symplectic matrices with respect to an invertible alternating matrix. In this talk, we shall discuss a similar construction of Roy’s elementary orthogonal transformations in matrix form.

Speaker : Dr. Sneha Chaubey (IIIT Delhi, India)

Title : Distribution of Sequences in Number Theory

Abstract: The topic on the distribution of sequences saw its light with the seminal paper of Weyl. This being the motivation of this talk, we begin with a discussion on different types of arithmetic/integer sequences occurring around us, these include but not limited to zeros of L-functions, energy levels of harmonic oscillators, as well as some classical sequences modulo one. We look at various distribution questions concerning them, for example, questions on uniform distribution and nearest neighbour gaps of sequences.

PHOTOGRAPHS

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IWM activities 2020-2021

- Follow-up mentorship programme for young undergraduate students (supported by CWM) was held in December 2020 in the virtual mode. This was in continuation to 2019 Young Women in Mathematics programme.
- Regional Workshop on research and opportunities in hybrid mode conducted in IIT Bhilai in December 2020.
- Annual conference which was postponed from last summers is now conducted in March 27-28, 2021 in a virtual mode hosted by IIT Dharwad.
- The Young Women in Math. workshop for UG students concluded yesterday (20-26 March 2021) in a hybrid mode.
- Virtual seminars were conducted during August-December 2020- Speakers were Neena Gupta, Cheryl Praeger, Rekha Thomas, Susanna Terracini and Malabika Pramanik.

Neela Nataraj

zoom

Prof Seshu

zoom







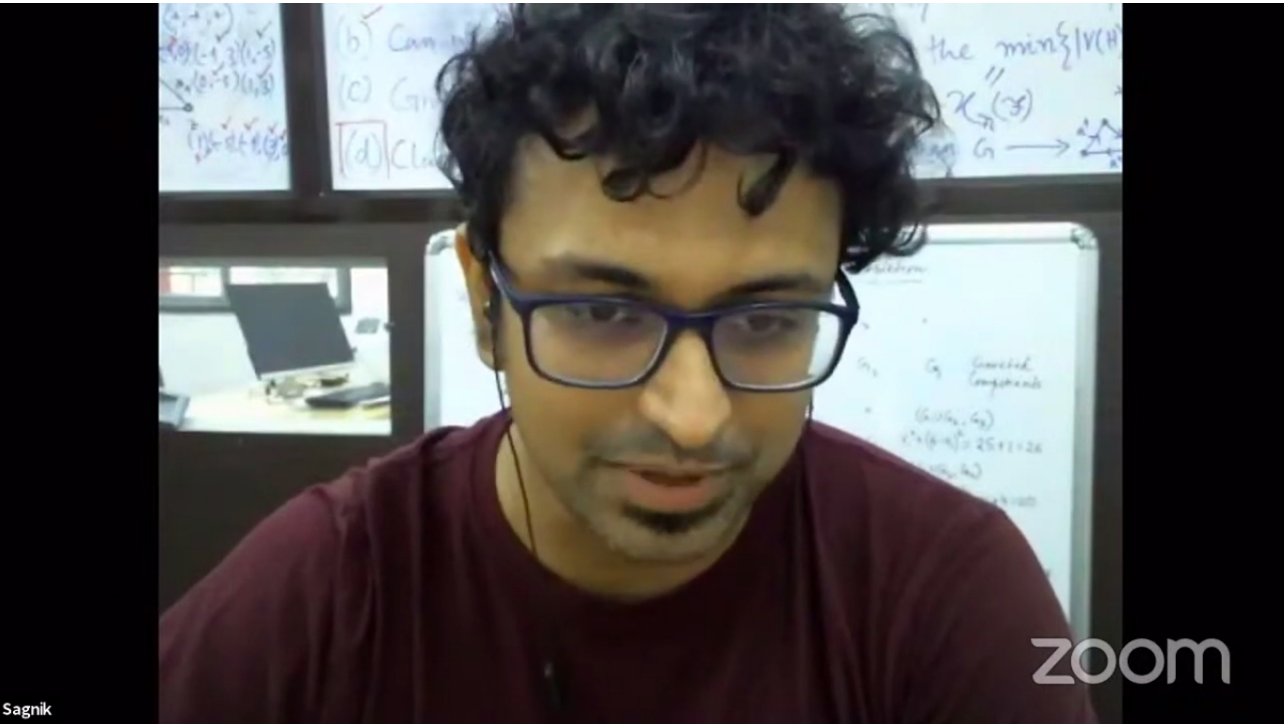




Nikita Agarwal

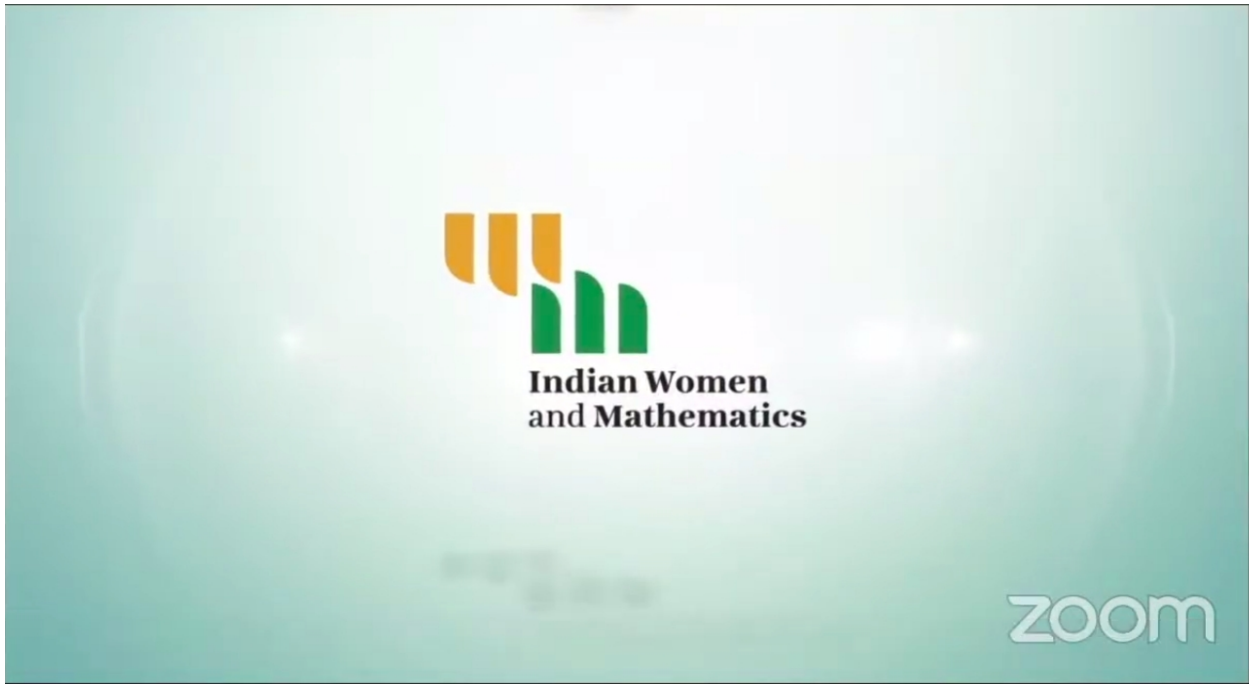


Monika Bhattacharjee





Marie-Francoise Roy



Concept Note of the IWM Logo



The basic concept of the logo design is about connections and collaborations.

The repetitive visual elements establish a visual rhythm making it dynamic and harmonious.

The colour scheme is based on the Indian tricolour reflecting the Indianness.

In general, the logo design is conceived to be simple and direct with a play of letters.



**Indian Women
and Mathematics**

The design uses the initial letters of women and mathematics as a monogram to represent the organization.

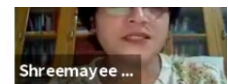
The visual representation of the letters also depicts two hands coming together to make a connection.

The connections are implied at two levels, between women & mathematics and between women mathematicians.

They also connote networking, collaboration and togetherness which the organization exemplifies.

zoom

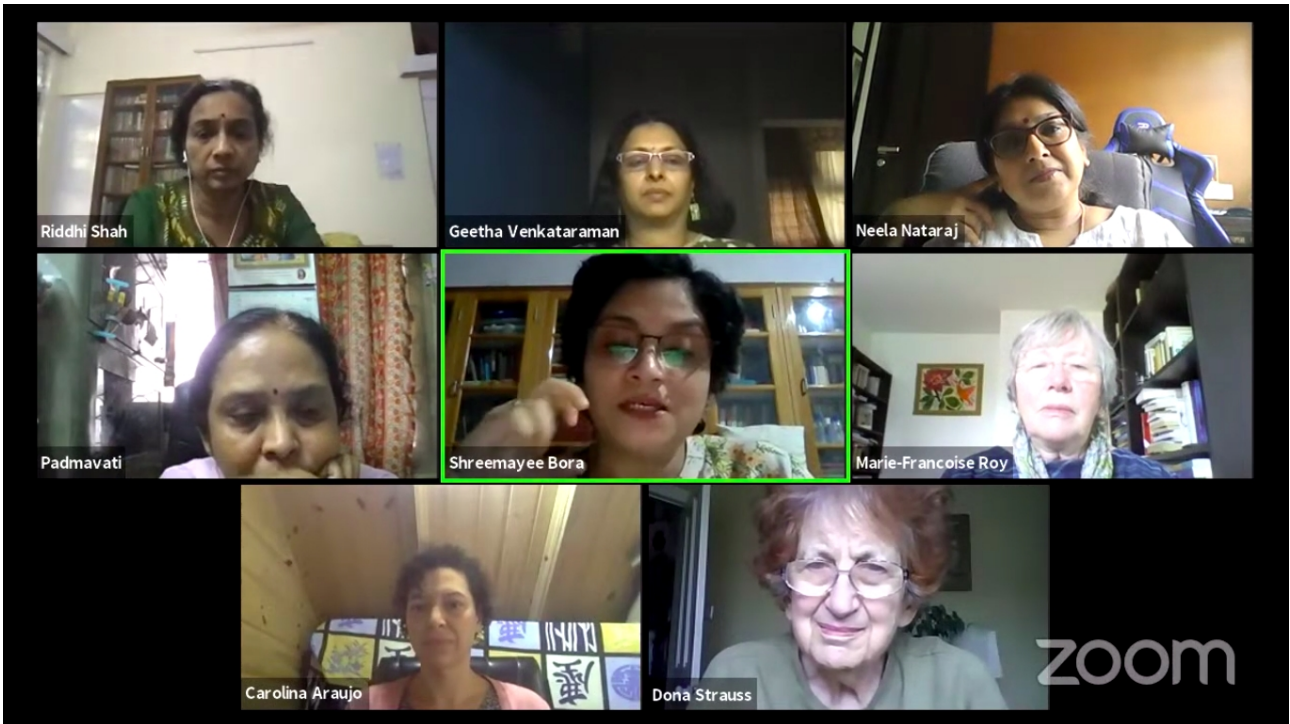
The Designer



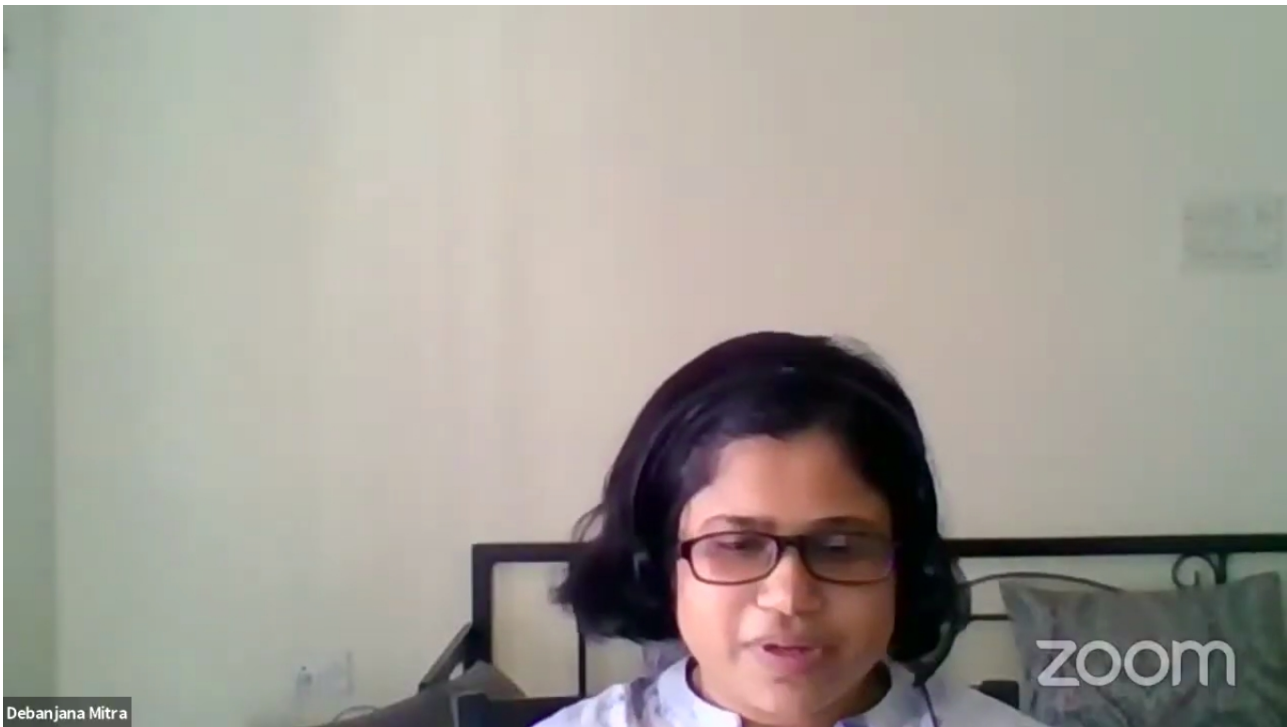
Dr. D. Udaya Kumar

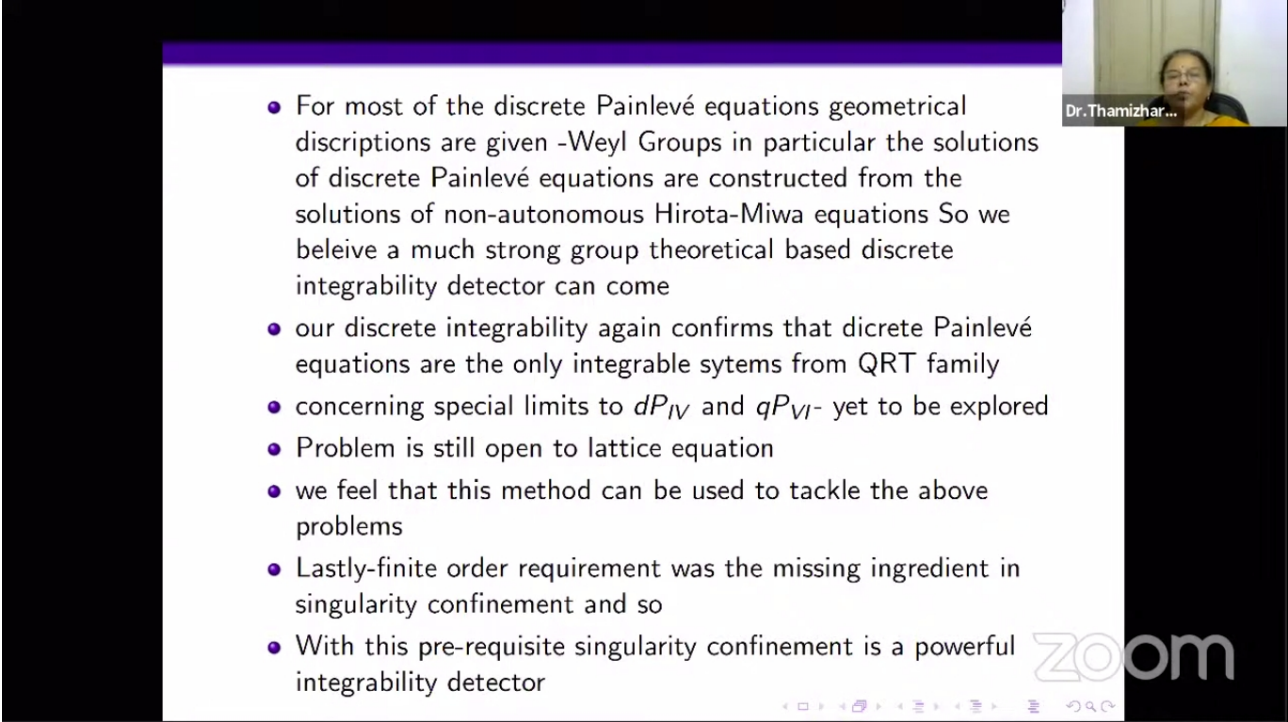
**Associate Professor & Head,
Department of Design
IIT Guwahati**

zoom









Dr. Thamizhar...

- For most of the discrete Painlevé equations geometrical descriptions are given -Weyl Groups in particular the solutions of discrete Painlevé equations are constructed from the solutions of non-autonomous Hirota-Miwa equations So we believe a much strong group theoretical based discrete integrability detector can come
- our discrete integrability again confirms that discrete Painlevé equations are the only integrable systems from QRT family
- concerning special limits to dP_{IV} and qP_{VI} - yet to be explored
- Problem is still open to lattice equation
- we feel that this method can be used to tackle the above problems
- Lastly-finite order requirement was the missing ingredient in singularity confinement and so
- With this pre-requisite singularity confinement is a powerful integrability detector

zoom



Carolina Araujo

zoom

