

## 1. Commutative Algebra

RMS ID	Name of the Presenting Author	Abstract Title	Affiliation
RMS-TMC-108 Thesis Paper Award	Suraj Kumar	Equations Defining the Rees Algebra of Ideals and $(Gd-2)$ Condition	Indian Institute of Technology Gandhinagar
RMS-TMC-128 Certificate	Sakshi Gupta	Image of ideals under linear $k$ -derivations and the lned conjecture	IIT Gandhinagar
RMS-TMC-140 Certificate	Samarendra Sahoo	Quasi-pure resolutions and some lower bounds of hilbert coefficients of cohen-macaulay modules	IIT Bombay

## 2. Complex Analysis

RMS-TMC-103 Certificate	Subhadip Pal	On multidimensional bohr radii for banach spaces	Indian Institute of Technology Kanpur
RMS-TMC-112 Certificate	Sambhunath Sen	Improved bloch and landau constants for meromorphic functions	Indian Institute of Technology Madras
RMS-TMC-135 Thesis Paper Award	Pranav Kumar	On starlikeness of regular coulomb wave functions	Indian Institute of Technology Madras

## 3. Computational Fluid Dynamics

RMS-TMC-118 Thesis Paper Award	Sudhir Singh	Painlevé Analysis and Higher-Order Rogue Waves of a Generalized $(3+1)$ -Dimensional Shallow Water Wave Equation	GITAM (Deemed to be) University, Bengaluru, India
RMS-TMC-123 Certificate	Dr. Bhawini Prasad	Mathematical study of nanoparticle loaded in red blood cells for drug	RV University Bengaluru

		delivery in an artery with stenosis	
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#### 4. Control Theory

RMS-TMC-119 Certificate	Manisha Yadav	Modeling and managing chaos: a fear-affected discretized prey-predator system with allee effect	SGT University
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#### 5. Discrete Mathematics

RMS-TMC-101 Certificate	Lijo M Jose	Disjoint total dominating sets in near-triangulations	Manipal Institute of Technology Bengaluru
RMS-TMC-107 Thesis Paper Award	Debabrota Mondal	On the limit points of the smallest positive eigenvalues of graphs	Indian Institute of Technology Guwahati
RMS-TMC-117 Certificate	Gahininath Laxman Sonawane	Reciprocal eigenvalue properties using the zeta and $m''$ obius functions	S. P. College, Pune, Maharashtra, India, Pin 411030

#### 6. Functional Analysis

RMS-TMC-122 Certificate	Arpit Kansal	Haagerup tensor product of $c^*$ -ternary rings	Shyama Prasad Mukherji College for Women, University of Delhi
RMS-TMC-130 Thesis Paper Award	Shubham Jain	Toeplitz operators on the $n$ -dimensional hartogs triangle	Indian Statistical Institute Bengaluru

#### 7. Geometry and Topology

RMS-TMC-111 Thesis Paper Award	Debjit Pal	Generalized complex structures on certain principal torus bundles	Gottfried Wilhelm Leibniz Universität Hannover, Germany
RMS-TMC-114 Certificate	Savita Rani	Ricci Solitons on Golden Riemannian Manifolds	International Centre for Theoretical Sciences, Tata Institute of Fundamental Research,

			Bengaluru-560089, India
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### 8. Harmonic Analysis

RMS-TMC-102 Thesis Paper Award	Hardeepbhai J. Khachar	Rate of convergence for double rational fourier series	Government Science College, Bhilad
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### 9. Mathematical Statistics

RMS-TMC-142 Thesis Paper Award	Monitirtha Dey	Bounds on Generalized Family- wise Error Rates for Normal Distributions	Indian Statistical Institute, Kolkata
RMS-TMC-144 Certificate	Arijit Pyne	Robust and Efficient Estimation in Ordinal Response Models using the Density Power Divergence	Novartis Healthcare Private Limited

### 10. Matrix Analysis

RMS-TMC-104 Thesis Paper Award	Bharat Pratap Chauhan	On almost semimonotone matrices with non- positive off-diagonal elements and their generalizations	Indian Institute of Technology Gandhinagar, Gujarat, India
RMS-TMC-133 Certificate	Shrinath Hadimani	Spectral stability of quaternion matrix polynomials	Manipal Institute of Technology, Manipal

### 11. Number Theory

RMS-TMC-141 Thesis Paper Award	Guru Sharan N	Mordell-tornheim zeta functions and functional equations for herglotz-zagier type functions	Indian Institute of Science
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### 12. Numerical Analysis

RMS-TMC-132 Certificate	Aniruddha Seal	A dimensional- splitting weak galerkin finite element method for	Department of Mathematics, IISc, Bangalore
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		2d time-fractional diffusion equation	
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### 13. Optimization

RMS-TMC-106 Certificate	Kanchan Mittal	Finite Convergence and Sharp Minima for Quasi-Equilibrium Problems	BITS Pilani, Hyderabad campus
RMS-TMC-110 Thesis Paper Award	Sonali Sharma	A criterion for q-tensors	Indian Institute of Technology Madras

### 14. Representation Theory

RMS-TMC-113 Thesis Paper Award	Jyoti	Rational group algebras of generalized strongly monomial groups: primitive idempotents and units	Shaheed Udham Singh Government College, Sunam
RMS-TMC-115 Certificate	Ram Karan Choudhary	A combinatorial formula for the wedderburn decomposition of rational group algebras and the rational representations of ordinary metacyclic p-groups	Indian Institute of Science Education and Research Pune

### 15. Cryptography and Coding

RMS-TMC-121 Thesis Paper Award	Swati Bhardwaj	New quantum codes from constacyclic codes over a general non-chain ring	Department of Mathematics, Panjab University, Chandigarh.
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