

# Mathematics In-house symposium.

Venue: Madhava Hall

Day I (10/11/2017)

9:00 - 9:10	<b>Head, Dept. of Mathematics.</b>	Welcome & Inauguration
Session I	Chair: S H Kulkarni	
9:15 - 9:35	Samprita Das Roy	On lack of stability of an inverse problem.
9:40 - 10:00	Satyajit Roy	The origin of the concepts: Non-uniform mass transfer and Non-uniform heating in Fluid flow problems.
<b>Coffee Break</b>		
Session II	Chair: Sivaram Ambikasaran	
10:20 - 10:40	Narayanan N	Counting Antichains.
10:45 - 11:05	Kousik Dara	A Brief Introduction to $(n, \epsilon)$ -pseudospectrum.
11:10 - 11:30	Projesh Nath Choudhury	Matrix Arithmetic-Geometric Mean Inequalities.
<b>Coffee Break</b>		
Session III	Chair: Sriram B	
11:50 - 12:10	Selvaraja S	Asymptotic Behaviour of Regularity of Edge Ideals.
12:15 - 12:35	Samir Kar	Proximality and strong proximality of closed convex sets in Banach spaces.
12:40 - 13:00	Pranav Haridas	Density of quadrature domains in $\mathbb{C}^n$ .
<b>Lunch Break</b>		
Session IV	Chair: R Rama	
2:30 - 2:50	Kunal Mukherjee	Joinings are Quantum Channels.
2:55 - 3:15	Soumitra Dey	Projected solution to inverse quasi-variational inequality problems.
<b>Group Photo &amp; Coffee break</b>		
Session V	Chair: R Radha	
3:45 - 4:05	Uma V	Cohomology of varieties with group action.
4:10 - 4:30	Sumesh K	On semigroups of CP-maps and CB-maps.
6:00 - 7:00	<b>Cultural Programme</b>	Madhava Hall
7:30 - 9.00	<b>Family Dinner</b>	ICSR A/c Dinning Hall

## Day II (11/11/2017)

Session I		
Chair: K C Sivakumar		
9:15 - 9:35	Raiza Dsouza	Simple polytopes, small covers and real Bott manifolds.
9:40-10:00	Suchismita Mishra	Distance two edge coloring.
<b>Coffee Break</b>		
Session II		
Chair: Sarang Sane		
10.20 - 10.40	Soumen Sarkar	Topological complexity of quasitoric manifolds.
10.45 - 11.05	Sivanesan M	A 'connection' procedure for scattering problems in water wave
11:10 - 11:30	Sarvesh Kumar	Sampling in shift-invariant spaces.
<b>Coffee Break</b>		
Session III		
Chair: Neelesh Upadhye		
11:50 - 12:10	Rahul Kumar R	Deformed Q-Gaussian von Neumann algebras.
12:15 - 12:35	Subhajit Chanda	Generator of some derived category.
12:40 - 13:00	Anoop T V	On the monotonicity of the first eigenvalue.
<b>Lunch Break</b>		
Session IV		
Chair: P Veeramani		
2:30 - 2:50	Santanu Sarkar	Cryptanalysis of RSA variants.
2:55 - 3:15	Debabrata De	On existence of uniformly bounded basis in GNS spaces.
3.20 - 3.40	Arijit Dey	Moduli space of vector bundles over algebraic varieties.
<b>High Tea</b>		