

**List of Seminars held during April, 2013 – September 8, 2017**

Date of the Seminar	Name of the Speaker with Address	Title of the Talk
29 <sup>th</sup> April, 2013	Dr. Shobha Oruganti	Diffusive Logistic Equation with Constant Yield Harvesting
11 <sup>th</sup> July, 2013	Prof. V. Suresh, UoH	Hasse Principle and Rational points
16 <sup>th</sup> July, 2013	Prof. V. Suresh, UoH	Isotropy of Quadratic Forms
26 <sup>th</sup> July, 2013	Dr. Shameek Paul, Centre for Excellence in Basic Sciences, Mumbai	Fibrations and Fundamental Groups
31 <sup>st</sup> July, 2013	Prof. Veeresh Gadag, Memorial University of Newfoundland, Canada	Robust Test for Multiple Contaminants in Shock Models
13 <sup>th</sup> August, 2013	Dr. Vaibhav Vaish, TIFR	Certain Invariants of Singularities
3 <sup>rd</sup> September, 2013	Dr. Ajit Kumar, Institute of Chemical Technology, Mumbai	Linear Programming Problems using Sage/R
27 <sup>th</sup> September, 2013	Dr. Vasudeva Murthy, TIFR-Bangalore	On the string equation of Narasimha
3 <sup>rd</sup> October, 2013	Dr. Anilatmaja Aryasomayajula, Humboldt University, Berlin	A certain Key-identity for hyperbolic Riemann surfaces.
10 <sup>th</sup> October, 2013	Dr. Anilatmaja Aryasomayajula, Humboldt University, Berlin	Series of Seminars on Arithmetic and Geometry
29 <sup>th</sup> October, 2013	Dr. Subhash Chandra, Chief Biometrician, Farming Systems Research, Dept. of Environment & Primary Industries, Australia	Derivation and predictive accuracy of regression-based pedotransfer functions
22 <sup>nd</sup> November, 2013	Prof. S.D. Adhikari, HRI, Allahabad	Zero-sum results in additive combinatorics
2 <sup>nd</sup> January, 2014	Prof. Rahul Parsa, Drake University	Copula Regression
26 <sup>th</sup> February, 2014	Dr. Priyavrat Deshpande, CMI, Chennai	Enumerative aspects of medu wada cutting
28 <sup>th</sup> February, 2014	Dr. Kavita Sutar, CMI, Chennai	Similarity classes of matrices and some geometry
3 <sup>rd</sup> March, 2014	Dr. Riddhi Shah, JNU, Delhi	Dynamics of Distal Group Actions
3 <sup>rd</sup> April, 2014	Prof. P. Bhimasankaram of ISB, Hyderabad	Fare determination problem of an airline
16 <sup>th</sup> April, 2014	Dr. Shanta Singh, ISI, New Delhi	Grimm's Conjecture and Smooth Numbers
7 <sup>th</sup> May, 2014	Prof. Pier, France	Periodic and quasiperiodic vortex shedding in the wake of a rotating sphere
28/7, 30/7, 4/8, 6/8	Dr. Uma N. Iyer, Dept. of Math. & Comp.Sci., Bronx Community College, New York	Algebras of Differential Operators and their representations (4 lectures)
31 <sup>st</sup> July, 2014	Dr. Vamsi Pritham Pingali, Department of Mathematics, Johns Hopkins University	On some computational and analytic aspects of Chern-Weil forms
21 <sup>st</sup> and 22 <sup>nd</sup> August, 2014	Mr. Atul Sekhar Berlin School of Mathematics, Germany	Introduction to Stochastic Analysis and its Applications (2 lectures)
5/9/14, 8/9/14 and 10/9/14	Dr. Ronnie Sebastian, Inspire faculty at IISER Pune	Theorem of the cube Dividing varieties by finite groups Dual Abelian Varieties
22/9/14 and 23/9/14	Dr. Marina Logares, Institute of Mathematical Sciences, Madrid, Spain	A Walk through non-Abelian Hodge Theory  The Language of Vector Bundles
24/9/14 and 25/9/14	Dr. Balakumar, ISI-Chennai	Complex Analysis of Several Variables (2 lectures)
26/9/14	Prof. Muruganandam, NISER, Bhubaneswar	Multiplier Problems for Fourier Algebras – Some New Results

30/9/14 and 1/10/14	Prof. M.S. Raghunathan, National Centre for Mathematics (joint Centre of TIFR-Mumbai & IIT-Mumbai)	Mathematics - Art that would rather be Science?  Morse Theory
21/10/14 and 22/10/14	Prof. T.N. Venkataramana, TIFR, Mumbai	Monodromy and Differential Equations  Monodromy of Higher Order Differential Equations
5 <sup>th</sup> January, 2015	Prof. K.N. Raghavan, IMSc., Chennai	On Gelfand-Tsetlin patterns
18 <sup>th</sup> February, 2015	Dr. Shilpa Gondhali, University of Haifa, Israel	Higher Toda Brackets and Massey Products
24 <sup>th</sup> June, 2015	Prof. A.S. Vasudeva Murthy, TIFR-CAM, Bangalore	On Splitting Methods for Differential Equations
22 <sup>nd</sup> July, 2015	Prof. R.K. Mohanty, South Asian University, New Delhi	Numerics of Nonlinear Biharmonic Problems of First kind: Applications to Navier-Stokes Equations of Motion
23 <sup>rd</sup> July, 2015	Prof. Michael Renardy, Virginia Tech-USA	Semigroup methods for PDEs
24 <sup>th</sup> July, 2015	Prof. Michael Renardy, Virginia Tech-USA	Turning polymeric liquids into theorems
11 <sup>th</sup> September, 2015	Dr. S. Natesan, IIT, Guwahati	Efficient Uniformly Convergent Numerical Scheme for Singularly Perturbed Delay Parabolic PDEs Exhibiting Boundary Layers
23 <sup>rd</sup> November, 2015	Dr. Ritwik Mukherjee, PDF, TIFR-Mumbai	Enumerative Geometry of rational cuspidal curves on del-Pezzo surfaces
25 <sup>th</sup> November, 2015	-do-	Enumerative geometry of singular curves in a general linear system
8 <sup>th</sup> December, 2015	Prof. Indranil Biswas, TIFR-Mumbai (UPE Distinguished Lecture)	Isomonodromic deformations of logarithmic connections and stability
14 <sup>th</sup> December, 2015	Prof. John Olaomi, University of South Africa	Estimation In Auto correlated-Endogenized Linear Model
15 <sup>th</sup> December, 2015	-do-	Statistical Consulting and the African Universities
16 <sup>th</sup> December, 2015	-do-	Estimation of mean from Ranked Set Sampling using Auxiliary variable with unknown mean
23 <sup>rd</sup> February, 2016	Dr. Sameer Chavan IIT – Kanpur	<u>Talk-1</u> : Brown-Douglas-Fillmore Theorem (General talk)
25 <sup>th</sup> February, 2016	Dr. Sameer Chavan IIT – Kanpur	<u>Talk-2</u> : A Maximum Modulus Principle for Analytic Polynomials (for M.Sc. students)
29 <sup>th</sup> February, 2016	Prof. D.S. Nagaraj IMSc., Chennai	<u>Talk-1</u> : Cohomology classes of $Gr(2,4)$ represented by $P^2$ (for faculty & research scholars)
2 <sup>nd</sup> March, 2016	Prof. D.S. Nagaraj IMSc., Chennai	<u>Talk-2</u> : Projective Varieties over the field of complex numbers (for M.Sc. students)
7 <sup>th</sup> March, 2016	Dr. Rajneesh Kumar Singh Ben-Gurion University of the Negev, Israel	Product formula for Carlitz motive

11 <sup>th</sup> March, 2016	Dr. Sanoli Gun IMSc., Chennai	The mysterious Euler's constant
26 <sup>th</sup> July, 2016	Prof. V. Suresh Emory University, Atlanta	Local-global principles over function fields of p-adic curves
21 <sup>st</sup> September, 2016	Dr. B. Chandrasekhar Loyola College, Chennai	REGRESSION EQUATIONS AND RELIABILITY ANALYSIS ASSOCIATED WITH MARSHALL-OLKIN BIVARIATE AND TRIVARIATE EXPONENTIAL DISTRIBUTIONS
5 <sup>th</sup> October, 2016	Prof. M.S. Raghunathan IIT, Bombay	The Gauss bonnet Theorem
21 <sup>st</sup> November, 2016	Prof. S.A. Katre University of Pune	Waring's problem for matrices
20 <sup>th</sup> December, 2016 (DSA-I)	Maria Hadjinicolaou Professor, Hellenic Open University	Semi-separation and R-semi separation of variables. Novel methods for obtaining the eigenfunctions of the axisymmetric Stokes flow operators
		Applications of the R-semi separation of variables for obtaining analytical solutions of boundary value problems related to blood flow.
24 <sup>th</sup> January, 2017 (DSA-I)	Prof. Radhika Ganapathy, TIFR-Mumbai	Modular and characteristic 0 representations of finite groups
25 <sup>th</sup> January, 2017 (DSA-I)	Prof. Radhika Ganapathy, TIFR-Mumbai	Some Hecke algebra isomorphisms over close local fields
24 <sup>th</sup> January, 2017	Dr. Sivaguru, TIFR-Mumbai	Domains of Holomorphy in Several Complex Variables
25 <sup>th</sup> January, 2017	Dr. Sivaguru, TIFR-Mumbai	Complex Analysis in More than One Variable
6 <sup>th</sup> February, 2017	Prof. Joseph Auslander, University of Maryland	Structure and homomorphisms of minimal flows
2 <sup>nd</sup> March, 2017	Prof. A.P. Singh, Central University of Rajasthan	What is Topology?
3 <sup>rd</sup> March, 2017	Prof. A.P. Singh, Central University of Rajasthan	Analytic functions: A very well behaved function
14 <sup>th</sup> March, 2017	Prof. Probal Chaudhuri, ISI, Kolkata	Optimization by Random Sampling
5 <sup>th</sup> June, 2017	Prof. G.P. Rajasekhar, IIT-Kharagpur	Modelling chemo-mechanical aspects inside biological tissues - existence theory, explicit solutions for the case of an in vitro tumor, endothelial glycocalyx
6 <sup>th</sup> June, 2017	Prof. G.P. Rajasekhar, IIT-Kharagpur	Mechanics of breakout phenomenon while lifting a large object from an anisotropic porous bed
7 <sup>th</sup> June, 2017	Prof. G.P. Rajasekhar, IIT-Kharagpur	Transport process of viscous drops considering thermocapillary and solutocapillary effects
23 <sup>rd</sup> June, 2017	Dr. Prabal Paul, BITS – Goa Campus	On Some Counting Arguments and their Applications
19 <sup>th</sup> July, 2017	Prof. V. Suresh Emory University, Atlanta	Zero-cycles on torsors and a question of Totaro
28 <sup>th</sup> July, 2017	Dr. Shanta Laishram	On Ramanujan Primes

	ISI, Delhi	
27 <sup>th</sup> July, 2017	Prof. A.K. Mishra, IMA, Bhubaneswar	On subordination of analytic functions
22 <sup>nd</sup> August, 2017	Prof. R. Thangadurai, HRI, Allahabad	Four Exponential Conjecture and Erdos problem.
6 <sup>th</sup> September, 2017	Prof. N. Balakrishna, Cochin University of Science & Technology, Cochin	An Introduction to Time Series Analysis at 4pm on Wednesday, 6 <sup>th</sup> September, 2017
7 <sup>th</sup> September, 2017	-do-	Multiplicative Error Models for Non-negative Time Series and related Statistical Inference at 4pm on Thursday, 7 <sup>th</sup> September, 2017
8 <sup>th</sup> September, 2017	Prof. T.P.M. Fareed, Principal, WMO Arts & Science College, Wayanad	Introduction to Item Response Theory (IRT)