

List of Seminars held during April, 2013 – March, 2014

Date of the Seminar	Name of the Speaker with Address	Title of the Talk
29 th April, 2013	Dr. Shobha Oruganti	Diffusive Logistic Equation with Constant Yield Harvesting
11 th July, 2013	Prof. V. Suresh, UoH	Hasse Principle and Rational points
16 th July, 2013	Prof. V. Suresh, UoH	Isotropy of Quadratic Forms
26 th July, 2013	Dr. Shameek Paul, Centre for Excellence in Basic Sciences, Mumbai	Fibrations and Fundamental Groups
31 st July, 2013	Prof. Veeresh Gadag, Memorial University of Newfoundland, Canada	Robust Test for Multiple Contaminants in Shock Models
13 th August, 2013	Dr. VaibhavVaish, TIFR	Certain Invariants of Singularities
3 rd September, 2013	Dr. Ajit Kumar, Institute of Chemical Technology, Mumbai	Linear Programming Problems using Sage/R
27 th September, 2013	Dr. Vasudeva Murthy, TIFR-Bangalore	On the string equation of Narasimha
3 rd October, 2013	Dr. AnilatmajaAryasomayajula, Humboldt University, Berlin	A certain Key-identity for hyperbolic Riemann surfaces.
10 th October, 2013	Dr. AnilatmajaAryasomayajula, Humboldt University, Berlin	Series of Seminars on Arithmetic and Geometry
29 th 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 nd November, 2013	Prof. S.D. Adhikari, HRI, Allahabad	Zero-sum results in additive combinatorics
2 nd January, 2014	Prof. Rahul Parsa, Drake University	Copula Regression
26 th February, 2014	Dr. PriyavratDeshpande, CMI, Chennai	Enumerative aspects of meduwada cutting
28 th February, 2014	Dr. KavitaSutar, CMI, Chennai	Similarity classes of matrices and some geometry
3 rd March, 2014	Dr. Riddhi Shah, JNU, Delhi	Dynamics of Distal Group Actions

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3 rd April, 2014	Prof. P. Bhimasankaram of ISB, Hyderabad	Fare determination problem of an airline
16 th April, 2014	Dr. Shanta Singh, ISI, New Delhi	Grimm's Conjecture and Smooth Numbers
7 th 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 st July, 2014	Dr. VamsiPrithamPingali, Department of Mathematics, Johns Hopkins University	On some computational and analytic aspects of Chern-Weil forms
21 st and 22 nd August, 2014	Mr. AtulSekhar Berlin School of Mathematics, Germany	Introduction to Stochastic Analysis and its Applications (2 lectures)
5/9, 8/9 and 10/9	Dr. Ronnie Sebastian, Inspire faculty at IISER Pune	Theorem of the cube Dividing varieties by finite groups Dual Abelian Varieties
22/9 and 23/9	Dr. Marina Logares, Institute of Mathematical Sciences, Madrid, Spain	A Walk through non-Abelian Hodge Theory The Language of Vector Bundles
24/9 and 25/9	Dr. Balakumar, ISI-Chennai	Complex Analysis of Several Variables (2 lectures)
26/9	Prof. Muruganandam, NISER, Bhubaneswar	Multiplier Problems for Fourier Algebras – Some New Results
30/9 and 1/10	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 and 22/10	Prof. T.N. Venkataramana, TIFR, Mumbai	Monodromy and Differential Equations Monodromy of Higher Order Differential Equations
5 th January, 2015	Prof. K.N. Raghavan, IMSc., Chennai	On Gelfand-Tsetlin patterns
18 th February, 2015	Dr. ShilpaGondhali, University of Haifa, Israel	Higher Toda Brackets and Massey Products

List of Seminars held during April, 2015 – March, 2016

24 th June, 2015	Prof. A.S. Vasudeva Murthy, TIFR-CAM, Bangalore	On Splitting Methods for Differential Equations
22 nd 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 rd July, 2015	Prof. Michael Renardy, Virginia Tech-USA	Semigroup methods for PDEs
24 th July, 2015	Prof. Michael Renardy, Virginia Tech-USA	Turning polymeric liquids into theorems
11 th September, 2015	Dr. S. Natesan, IIT, Guwahati	Efficient Uniformly Convergent Numerical Scheme for Singularly Perturbed Delay Parabolic PDEs Exhibiting Boundary Layers
23 rd November, 2015	Dr. Ritwik Mukherjee, PDF, TIFR- Mumbai	Enumerative Geometry of rational cuspidal curves on del-Pezzo surfaces
25 th November, 2015	-do-	Enumerative geometry of singular curves in a general linear system
8 th December, 2015	Prof. Indranil Biswas, TIFR- Mumbai (UPE Distinguished Lecture)	Isomonodromic deformations of logarithmic connections and stability
14 th December, 2015	Prof. John Olaomi, University of South Africa	Estimation In Auto correlated-Endogenized Linear Model
15 th December, 2015	-do-	Statistical Consulting and the African Universities
16 th December, 2015	-do-	Estimation of mean from Ranked Set Sampling using Auxiliary variable with unknown mean
23 rd February, 2016	Dr. Sameer Chavan IIT – Kanpur	<u>Talk-1</u> : Brown-Douglas-Fillmore Theorem (General talk)
25 th February, 2016	Dr. Sameer Chavan IIT – Kanpur	<u>Talk-2</u> : A Maximum Modulus Principle for Analytic Polynomials (for M.Sc. students)
29 th 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 nd 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 th March, 2016	Dr. Rajneesh Kumar Singh Ben-Gurion University of the Negev, Israel	Product formula for Carlitz motive
11 th March, 2016	Dr. Sanoli Gun IMSc., Chennai	The mysterious Euler's constant

List of Seminars held during April, 2016 – March, 2017

26 th July, 2016	Prof. V. Suresh Emory University, Atlanta	Local-global principles over function fields of p-adic curves
21 st September, 2016	Dr. B. Chandrasekhar Loyola College, Chennai	REGRESSION EQUATIONS AND RELIABILITY ANALYSIS ASSOCIATED WITH MARSHALL-OLKIN BIVARIATE AND TRIVARIATE EXPONENTIAL DISTRIBUTIONS
5 th October, 2016	Prof. M.S. Raghunathan IIT, Bombay	The Gauss bonnet Theorem
21 st November, 2016	Prof. S.A. Katre University of Pune	Waring's problem for matrices
20 th 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 th January, 2017 (DSA-I)	Prof. RadhikaGanapathy, TIFR-Mumbai	Modular and characteristic 0 representations of finite groups
25 th January, 2017 (DSA-I)	Prof. RadhikaGanapathy, TIFR-Mumbai	Some Hecke algebra isomorphisms over close local fields
24 th January, 2017	Dr. Sivaguru, TIFR-Mumbai	Domains of Holomorphy in Several Complex Variables
25 th January, 2017	Dr. Sivaguru, TIFR-Mumbai	Complex Analysis in More than One Variable
6 th February, 2017	Prof. Joseph Auslander, University of Maryland	Structure and homomorphisms of minimal flows
2 nd March, 2017	Prof. A.P. Singh, Central University of Rajasthan	What is Topology?
3 rd March, 2017	Prof. A.P. Singh, Central University of Rajasthan	Analytic functions: A very well behaved function
14 th March, 2017	Prof. ProbalChaudhuri, ISI, Kolkata	Optimization by Random Sampling

List of Seminars held during April, 2017 – February, 2019

5 th 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 th June, 2017	Prof. G.P. Rajasekhar, IIT-Kharagpur	Mechanics of breakout phenomenon while lifting a large object from an anisotropic porous bed
7 th June, 2017	Prof. G.P. Rajasekhar, IIT-Kharagpur	Transport process of viscous drops considering thermocapillary and solutocapillary effects
23 rd June, 2017	Dr. Prabal Paul, BITS – Goa Campus	On Some Counting Arguments and their Applications
19 th July, 2017	Prof. V. Suresh Emory University, Atlanta	Zero-cycles on torsors and a question of Totaro
28 th July, 2017	Dr. ShantaLaishram ISI, Delhi	On Ramanujan Primes
27 th July, 2017	Prof. A.K. Mishra, IMA, Bhubaneswar	On subordination of analytic functions
22 nd August, 2017	Prof. R. Thangadurai, HRI, Allahabad	Four Exponential Conjecture and Erdos problem.
6 th September, 2017	Prof. N. Balakrishna, Cochin University of Science & Technology, Cochin	An Introduction to Time Series Analysis at 4pm on Wednesday, 6 th September, 2017
7 th September, 2017	-do-	Multiplicative Error Models for Non-negative Time Series and related Statistical Inference at 4pm on Thursday, 7 th September, 2017
8 th September, 2017	Prof. T.P.M. Fareed, Principal, WMO Arts & Science College, Wayanad	Introduction to Item Response Theory (IRT)
20 th September, 2017	Prof. A. Sankaranarayanan TIFR, Mumbai	Exposure to Goldbach conjecture and Twin Prime Conjecture

10 th & 11 th October, 2017	Prof. SudarshanGurjar, IIT, Bombay (two talks)	Topological K-Theory
25 th October, 2017	Prof. Guy Degla IMSP, Benin	The Methods of Positive Operators with Applications
26 th October, 2017	Prof. Aboubacar Marcos, IMSP, Benin	Multiplicity and Uniqueness of solutions for a sublinear problem involgng $P(X)$ - Operator
26 th October, 2017	Dr. Subhash Chandra, Chief Biometrician Agricultural Research Division, Dept. of Economic Development, Victoria, Australia	Explanation and Prediction – The Differences Matter
27 th October, 2017	Prof. Guy Degla IMSP, Benin	A survey of implicit function theorems with applications
1 st November, 2017	Dr. PratyushaChattopadhyay ISI, Bangalore	Equality of linear and symplectic orbits and improved stability bound
10 th November, 2017	Prof. R. Balasubramanian Head, NCM, Mumbai	Elliptic-curve cryptography
14 th November, 2017	Dr. Soumya Bhattacharya Ramakrishna Mission Vivekananda University	Finiteness results on a certain class of modular forms
15 th November, 2017	-do-	-do-
12 th January, 2018	Prof. Shalabh IIT, Kanpur	Goodness of Fit in Multiple measurement Error Models
15 th October, 2018	Jaya N. Iyer	Algebraic cycles vs topological cycles
29 th October, 2018	Dr. Sumanth Datt	Tilting modules for Algebraic Groups
12 th November, 2018	Dr. Makoto Sakagaito	On a local-global principle for Brauer groups
19 th November, 2018	Dr. Makoto Sakagaito	On a local-global principle for Galois cohomology
28 th November, 2018	Prof. Sharkovsky, A.N.	Sharkovsky Ordering
29 th November, 2018	Prof. Sharkovsky, A.N.	Descriptive theory of deterministic chaos
30 th November, 2018	Prof. Sharkovsky, A.N.	Ideal turbulence: fractal and stochastic attractors in idealized models of mathematical physic
3 rd December, 2018	Prof. M.S. Raghunathan	The group of distance preserving automorphisms of \mathbb{R}^n
14 th December, 2018	Dr. Dominik Kwietniak	Borel complexity of normal numbers via generic

		points in subshifts with specification
13 th December, 2018	Dr. Dominik Kwietniak	Sarnak's conjecture implies Chowla's conjecture along a subsequence
20 December, 2018	Prof. T.N Venkataramana	The Braid Group and the Burau Representation
02 nd January, 2019	Prof. Dinakar Ramakrishnan	Diophantine Equation
4 th January, 2019	Prof. Patrice Philippon	Around two problems of Hardy and Mahler
7 th January, 2019	Dr. Ekata Saha	Introduction to rational approximation and the first example of a transcendental number
9 th January, 2019	Dr. Prathamesh	Mechanizing mathematics
24 th January, 2019	Prof. Krishna B. Athreya	What is Probability ?
25 th January, 2019	Prof. Krishna B. Athreya	Standard Brownian motion
28 th January, 2019	Mr. Arpan Das	Bezout's theorem for plane projective curves
11 th February, 2019	Prof. M.S. Raghunathan	Ruler and Compass Constructions
17 th February, 2019	Prof. K R Parthasarathy	Gaussian states and estimation of their mean and covariance parameters
20 th February, 2019	Prof. K R Parthasarathy	Gaussian states and estimation of their mean and covariance parameters
22 nd February, 2019	Prof. K R Parthasarathy	Gaussian states and estimation of their mean and covariance parameters