



JANUARY 22-25, 2018

*Celebrating Centenary Year of Professor S.S. Shrikhande*

FOUNDING HEAD OF THE UNIVERSITY DEPARTMENT OF MATHEMATICS

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**REGISTER HERE:**

[mu100shrikhande@gmail.com](mailto:mu100shrikhande@gmail.com)

**BEFORE**

**14<sup>TH</sup> JANUARY 2018**

**REGISTRATION FEE:**

**STUDENTS - ₹1000**

**FACULTY - ₹2500**

**Confirmed Speakers**

**Professor Janos Pach**

(EPFL, Lausanne)

**Professor Mohan Shrikhande**

(Central Michigan University)

**Professor Maria Esteban**

(Ceremade, Université Paris, Dauphine)

**Professor Robert Wisbauer**

(Heinrich-Heine-Universität Düsseldorf)

**Professor Dhruv Mubayi**

(University of Illinois at Chicago)

**Professor N.M. Singhi**

**Professor S.S. Sane** (IITB)

**Professor Murali Srinivasan** (IITB)

**Professor S.G. Dani**

(CEBS, University of Mumbai)

**Professor Mythily Ramaswamy**

(TIFR-CAM, Bangalore)

**Professor Vijayalaxmi Trivedi**

(TIFR Mumbai)

**Professor Eknath Ghate**

(TIFR Mumbai)

**Professor N. Fakhruddin**

(TIFR Mumbai)

**Dr. Amitava Bhattacharya**

(TIFR Mumbai)

**Dr. Anisa Chorwadwala**

(IISER Pune)

**Dr. G.V.V. Hemasundar**

(SIWS College, Mumbai)

**Mode of Payment:** Demand draft in favour of "Finance and Accounts officer, University of Mumbai" payable at Mumbai to be sent to

**The Head, Department of Mathematics, University of Mumbai, Vidyanagari, Santacruz ( East) Mumbai 400 098.**

\* Accommodation will be provided on payment basis depending on availability. Request for accommodation may be submitted along with applications by email. \*

## Tentative Schedule

\*All lectures will be conducted in the Seminar Hall, Dnyaneshwar Bhavan

\* Breakfast will be served from **8.15 am to 9.15 am at the venue everyday**

TIME	SPEAKER	TITLE
<b>January 22, 2018</b>		
<b>1<sup>st</sup> Session:</b>		
9.30 am- 10.20 am	<b>Inauguration</b>	
10.25 am -11.15 am	Prof. N.M.Singhi	Mathematics-Shrikhande style
11.15 am –11.30am	<b>Tea Break</b>	
<b>2<sup>nd</sup> Session:</b>		
11.30 am -12.20 pm	Prof. Mohan Shrikhande	Strongly regular graphs and quasi-symmetric designs
12.25 pm -1.15 pm	Prof. S.S. Sane	The Shrikhande Graph
1.15 pm-2.15 pm	<b>Lunch Break</b>	
<b>3<sup>rd</sup> Session:</b>		
2.15 pm - 3.15 pm	Prof. Dhruv Mubayi	Hypergraph Turan problems for expansions
3.15pm - 3.30pm	<b>Tea Break</b>	
3.30 pm - 4.30 pm	Prof. R. Sridharan	TBA
<b>January 23, 2018</b>		
<b>1<sup>st</sup> Session:</b>		
9.30 am- 10.20 am	Prof. Dhruv Mubayi	New Developments in Hypergraph Ramsey theory
10.25 am -11.15 am	Prof. Janos Pach	New crossing lemmas
11.15 am –11.30am	<b>Tea Break</b>	
<b>2<sup>nd</sup> Session:</b>		
11.30 am -12.20 pm	Dr. Amitava Bhattacharya	TBA
12.25 pm -1.15 pm	Prof. Murali Srinivasan	TBA
1.15 pm-2.15 pm	<b>Lunch Break</b>	
<b>3<sup>rd</sup> Session:</b>		
2.15 pm - 3.15 pm	Prof. Robert Wisbauer	A historical view on algebraic structures
3.15pm - 3.30pm	<b>Tea Break</b>	
3.30 pm - 4.30 pm	Prof. Mohan Shrikhande	A stroll through designs and strongly regular graphs

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January 24, 2018		
<b>1<sup>st</sup> Session:</b>		
9.30 am- 10.20 am	Prof. Robert Wisbauer	A categorical approach to algebraic structures
10.25 am -11.15 am	Prof. Vijayalaxmi Trivedi	Some applications of Hilbert-Kunz density functions to toric varieties
11.15 am –11.30am	<b>Tea Break</b>	
<b>2<sup>nd</sup> Session:</b>		
11.30 am -12.20 pm	Prof. Eknath Ghate	TBA
12.25 pm -1.15 pm	Prof. N. Fakhruddin	Some questions in arithmetic dynamics
1.15 pm-2.15 pm	<b>Lunch Break</b>	
<b>3<sup>rd</sup> Session:</b>		
2.15 pm - 3.15 pm	Prof. Janos Pach	The importance of being simple
3.15pm - 3.30pm	<b>Tea Break</b>	
3.30 pm - 4.30 pm	Prof. Maria Esteban	How Mathematics is changing the world.
January 25, 2018		
<b>1<sup>st</sup> Session:</b>		
9.30 am- 10.20 am	Prof. Maria Esteban	Characterization and computation of eigenvalues of operators with gaps. Applications in relativistic Quantum Mechanics.
10.25 am -11.15 am	Prof. S.G. Dani	On works of Prof. Mirzakhani
11.15 am –11.30am	<b>Tea Break</b>	
<b>2<sup>nd</sup> Session:</b>		
11.30 am -12.20 pm	Dr. Anisa Chorwadwala	An eigenvalue optimization problem
12.25 pm -1.15 pm	Dr. G.V.V. Hemasundar	Koebe's planarity theorem
1.15 pm-2.15 pm	<b>Lunch Break</b>	
<b>3<sup>rd</sup> Session:</b>		
2.15 pm - 3.15 pm	Prof. Mythily Ramaswamy	Ingham type inequalities and Application
3.15 pm- 3.30 pm		Vote of thanks and Valedictory note
3.30 pm-4.00pm	<b>Tea</b>	