Frontier Symposium in Mathematics 2025, IISER Thiruvananthapuram

SEMINAR PROGRAM SCHEDULE (Day 1, 17/01/2025), Venue: LHC Jupiter

Time	Scheduled Event
2.30 PM-3.00 PM	**Registration and Tea**
3.00 PM – 3.15 PM	**Inauguration Ceremony** ✧ Welcome Address by honorable Director **Prof. Jarugu Narasimha Moorthy**, *IISER Thiruvananthapuram, Kerala*
3.20 PM - 4.05 PM	*Local mapping property of the Schrödinger maximal function* ✧ **Prof. Swagato Kumar Ray** ✧ <u>*Chair*</u>*.* Dr. *Samya Kumar Ray*
4.10 PM – 4.55 PM	*Noncommutative ergodic theorem associated to free group actions* ✧ **Prof. Panchugopal Bikram** ✧ <u>*Chair*</u>*.* Dr. *Samya Kumar Ray*
4.55 PM – 5.15 PM	**Tea Break**
5.15 PM – 6.00 PM	*Asymptotic behavior of blowing-up and global solutions for quasilinear elliptic systems with gradient terms* ✧**Prof. Jacques Giacomoni** ✧ <u>*Chair*</u>*.* Dr. *Dhanya Rajendran*
6.05 PM –6.50 PM	*Ring of invariants* ✧ **Prof. Tony Joseph Puthenpurakal** ✧ <u>*Chair*</u>*.* Dr. *Dhanya Rajendran*

SEMINAR PROGRAM SCHEDULE (Day 2, 18/01/2025), Venue: LHC Jupiter

Time	Scheduled Event
9.30 AM-10.15 AM	*On the bilinear Bochner-Riesz problem* ✧ **Prof. Saurabh Shrivastava** ✧ <u>*Chair*</u>*.* Md. *Ramiz Reza*
10.20 AM - 11.05 AM	*Canonical forms of holomorphic and meromorphic matrix-valued functions* ✧ *Prof.* **Rafikul Alam** ✧ <u>*Chair*</u>*.* Md. *Ramiz Reza*
11.05 AM – 11.25 AM	**Tea Break**
11.25 AM - 12.10 PM	*Social Capital and Health: Theory and Evidence* ✧ **Prof. Phani Motamarri** ✧ <u>*Chair*</u>*.* Dr. *Nagaiah Chamukari*
12.15 PM – 1.00 PM	*Scale-Dependent Poincaré inequalities and the stability of the Heisenberg Uncertainty Principle on the hyperbolic space* ✧ **Prof. Debdip Ganguly** ✧ <u>*Chair*</u>*.* Dr. *Nagaiah Chamukari*
1.00 PM – 1.15 PM	**Group photo shoot**
1.15 PM – 2.15 PM	**Lunch break**

SEMINAR PROGRAM SCHEDULE (Day 2, 18/01/2025), Venue: LHC Jupiter

Time	Scheduled Event
2.15 PM-3.00 PM	*On congruent isomorphisms for tori* ✧ **Prof. Sandeep Varma** ✧ <u>*Chair.*</u> *Dr. Jyothsnaa Shivaraman*
3.05 PM-3.25 PM	*Convergence of Adaptive Finite Element Methods for Optimal Control Problems Involving Dirac Measures* ✧ **Mr. Subham Nayak** ✧ <u>*Chair.*</u> *Dr. Jyothsnaa Shivaraman*
3.25 PM-3.45 PM	*Hook fusion procedure for hyperoctahedral groups* ✧ **Ms. Km Dimpi** ✧ <u>*Chair.*</u> *Dr. Jyothsnaa Shivaraman*
3.45 PM-4.15	**Tea and poster presentation**
4.15 PM-5.00 PM	*Rellich and Hardy identities for Grushin operator* ✧ **Prof. Jotsaroop Kaur** ✧ <u>*Chair.*</u> *Dr. Devaraj P*
5.05 PM-5.25 PM	*On an eigenvalue problem associated with mixed operators under mixed boundary conditions* ✧ **Mr. Lovelesh Sharma** ✧ <u>*Chair.*</u> *Dr. Devaraj P*
5.30 PM-6.15 PM	*Character sheaves on algebraic groups* ✧ **Prof. Tanmay Deshpande** ✧ <u>*Chair.*</u> *Dr. Devaraj P*

SEMINAR PROGRAM SCHEDULE (Day 3, 19/01/2025), Venue: LHC Jupiter

Time	Scheduled Event
9.30 AM-10.15 AM	*Singularities in prime characteristics* ✧ ***Prof.** Mitra Koley* ✧ <u>*Chair.*</u> *Dr. Viji Thomas*
10.20 AM - 11.05 AM	*Entropy method: a tool for studying reaction-diffusion systems* ✧ **Prof. Harsha Hutridurga** ✧ <u>*Chair.*</u> *Dr. Viji Thomas*
11.05 AM – 11.25 AM	**Tea Break**
11.25 AM-12.10 PM	*Separation Property for the Nonlocal Cahn-Hilliard-Brinkman System* ✧ ***Prof.** Dharmatti Sheetal* ✧ <u>*Chair.*</u> *Dr. K R Arun*