Date: July 25, 2024 Time: 09:00-18:30 Venue: LHC-03

Applied Mathematics Day @ IIT Hyderabad



भारतीय प्रौद्योगिकी संस्थान हैदराबाद Indian Institute of Technology Hyderabad

Organised by Department of Mathematics IIT Hyderabad

09:15-09:45 Professor C. S. Sastry (Mathematics) "Nonconvex sparse solvers: Theory and applications" 09:45-10:15 Dr. Aditya Siripuram (Electrical Engineering) "Discrete Fourier Transform (DFT) computation for signals with structured support" 10:15-10:30 Pappu Kumar Mourya (Mathematics) "Darcy-Brinkman convection with thermal anisotropic in an inclined porous layer" 10:30-10:45 Sahil Islam (Physics) "Differential motility leads to intestinal organoid budding" 10:45-11:00 Pindi Haritha (Chemical Engineering) "Effect of functional anisotropy on local dynamics of functionalized polymer grafted nanoparticles" 11:30-12:00 Dr. Viswanath Chinthapenta (Mechanical And Aerospace Engineering) "Analytical full field solution for fully debonded anti-crack and domain integral method to extract Stress Intensity Factor" 12:30-12:30 Dr. Anupam Gupta (Physics) "A mechanochemical framework for somitogenesis" 12:30-13:00 Dr. Arunabha Majumdar (Mathematics) "A method to adjust for the uncertainty of predicted expression in transcriptome-wide association study" 13:00-14:00 Lunch 14:00-14:30 Dr. Anand Mohan (Chemical Engineering) "Jeffery-Hamel flow of a new shear-thinning model that approximates viscoplastic		
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		"Applied mathematics in imaging the source of brain activity from non-invasive
electromagnetic sensing		electromagnetic sensing"

15:30-16:00 Coffee Break 16:00-16:30 Dr. Phanindra Jampana (Chemical Engineering) "Electrical Resistance Tomography (ERT) Inverse Algorithms: Application to Hydrocyclone Air Core Diameter Estimation" 16:30-17:00 Dr. N. R. Aravind (Computer Science and Engineering) "Randomness in algorithms" 17:00-17:30 Dr. P. N. Karthik (Artificial Intelligence) "Best arm identification with arm erasures" 17:30-18:00 Dr. Anurag Tripathi (Physics) "Understanding the building blocks of the colour structure of the multi-parton scattering amplitudes beyond 3 loops"

18:00-18:30 Coffee and Concluding Remarks