



International Conference on

Latest Advances in Computational and Applied Mathematics-2025

December 8–11, 2025

IISER Thiruvananthapuram

Monday – December 8, 2025

Time	LHC 103: Kaumudi	LHC 105: G N Ramachandran	LHC 106: P C Ray	LHC 107: S Ramanujan
08:30–09:10	Registration (LHC Lounge)			
09:10–09:30	Inauguration			
09:30–10:05	Martin Weiser Adaptive solvers for cardiac electrophysiology simulations			
10:10–10:45	A.K.Pani On Backward Time-Fractional Diffusion Problems: A Unified Approach			
10:50-11:10	Coffee/Tea (LHC Lounge)			
11:10–12:40	HPC/Scientific Machine Learning - 1 11:10–11:40 <ul style="list-style-type: none">● Pratik Nayak: Batched GPU solvers for large scale simulations● Sarthak Sharma: Physics-Informed Deep Learning for Solving Coupled Nonlinear Systems: A PINN-Based Approach for Multiphysics Transport 11:40–12:00 12:00–12:20 <ul style="list-style-type: none">● Ashifa Khan: Exponentially fitted mesh spline approach for the numerical study of mathematical model arising from a model of neuronal variability.● Nida Izhar Mallick: A simple and efficient iterative scheme for image restoration 12:20–12:40	A Posteriori Error Analysis and Adaptive FEM - 1 11:10–11:40 <ul style="list-style-type: none">● Kamana Porwal: Adaptive quadratic finite element method for a unilateral contact problem● Tooba M. Shaikh: Adaptive Mixed Finite Element Method for Distributed Optimal Control Problems : Quasi-Optimality 11:40–12:00 12:00–12:20 <ul style="list-style-type: none">● Arnab Pal: Convergence and Quasi-Optimality of an AFEM via Inf-Sup Stability for a Dirichlet Boundary Control Problem.● Avinash K: On the Convergence of the Modified Scale-3 Haar Wavelet Method for Solving Elliptic PDEs 12:20–12:40	Recent Advances in Numerical Methods for Newtonian and Viscoelastic Fluid Models - 1 11:10–11:40 <ul style="list-style-type: none">● Saumya Bajpai: Local Discontinuous Galerkin Method for Kelvin-Voigt Viscoelastic Fluid Flow Model● Debendra Kumar Swain: Discontinuous Galerkin two-grid method for the transient Boussinesq equations 11:40–12:00 12:00–12:20 <ul style="list-style-type: none">● Antara Wajpe: Fluid Flow Analysis In Curved Pipes Using Homotopy Analysis Method● Shishu Pal Singh: Finite Difference Method for Global Stabilization of the Viscous Burgers' Equation with Nonlinear Neumann Boundary Feedback Control 12:20–12:40	
12:40–13:50	Lunch (CDH III/VFR)			
13:50–14:25	Olaf Ippisch Efficient, Hybrid-Parallel Linear Algebra for Sparse Matrices			
14:30–15:05	Prabhu Ramachandran Adaptive Resolution for SPH with Reproducible Open Source Software			
15:10–15:20	Group Photo (TBA)			
15:20–15:40	Coffee/Tea (LHC Lounge)			
15:40–16:15	Alexander Heinlein Neural Network-Based Models for Physical Systems: Analysis, Domain Decomposition, and Preconditioning			
16:20–18:00	HPC/Scientific Machine Learning - 2 16:20–16:40 <ul style="list-style-type: none">● Ziya Uddin: Physics Informed Optimal Homotopy Analysis Method (PI-OHAM): A Hybrid Analytical–Computational Framework for Solving Differential Equations● Subhashri A R: Global Polynomial Synchronization of Stochastic Reaction Diffusion Neural Networks via Dynamic Hybrid Triggered Control with Cyber-Attacks 16:40–17:00 17:00–17:20 <ul style="list-style-type: none">● Vijay Kag: Learning Hidden Physics and System Parameters with Deep Operator Networks● Muhammad Roshan: A machine learning approach for dynamic prediction of a physiological flow through an annulus between two peristaltic tubes: Applications in biomedicin 17:20–17:40 17:40-18:00 <ul style="list-style-type: none">● Ratikanta Behera: Neural Network Models for the Dynamic Moore-Penrose Inverse of Tensors	A Posteriori Error Analysis and Adaptive FEM - 2 16:20–16:40 <ul style="list-style-type: none">● Subham Nayak: Adaptive nonconforming FEM for distributed optimal control problems governed by m-harmonic equations● Vikas Kumar: H^1-norm error estimate of a compact ADI finite difference scheme for the 2D multi-term time-fractional convection-diffusion equation governing groundwater pollution 16:40–17:00 17:00–17:20 <ul style="list-style-type: none">● Sahu Nagesh Sumanshankar: Semi-Analytical Solutions of Counter-Current Imbibition Phenomena Using DTM and RDTM● Rupal Aggarwal: Numerical solution of delay differential equation using wavelet method 17:20–17:40 17:40-18:00 <ul style="list-style-type: none">● Ravi Shankar Prasad: Numerical study of brain tumor growth in 2D irregular domain with variable-order time-fractional derivative	Recent Advances in Numerical Methods for Newtonian and Viscoelastic Fluid Models - 2 16:20–16:40 <ul style="list-style-type: none">● Jeremy Rymbai: Nanoparticle aggregation kinematics in hybrid nanofluid over a stretching surface● Hemalatha Veedhuluri: Flow separation-induced stability and bioconvection dynamics in water-based AA7075 nanofluid with gyrotactic microorganisms 16:40–17:00 17:00–17:20 <ul style="list-style-type: none">● Himanshu Upreti: Thermal Analysis of Casson Hybrid Nanofluid Around a Circular Cylinder Using DTM● Tapan Kumar Muduli: Lie symmetry analysis of a nonlinear system of partial integro differential equations arising in thermoviscoelasticity 17:20–17:40 17:40-18:00 <ul style="list-style-type: none">● Jyoti Yadav: An Efficient High-Order Scheme for 2D Caputo Time-Fractional CDR Equations with Weak Initial Singularity: Analysis and Computation	
19:30	Dinner (VFR)			

Time	LHC 103: Kaumudi	LHC 105: G N Ramachandran	LHC 106: P C Ray	LHC 107: S Ramanujan
08:45–09:00	Registration (LHC Lounge)			
09:00–09:35	Dmitri Kuzmin <i>Convex limiting and entropy fixes for finite element discretizations of nonlinear hyperbolic problems</i>			
09:40–10:15	Praveen Chandrashekar <i>Continuous Galerkin method for compressible flows</i>			
10:20–10:55	Martin Falcke <i>The role of sub-dyadic structure for whole cell behavior – multiscale modelling for cardiology</i>			
11:00–11:20	Coffee/Tea (LHC Lounge)			
11:20–12:40	HPC/Scientific Machine Learning - 3 <ul style="list-style-type: none">● Mayank Kumar Bijay: <i>Neural Networks Predicting Submesoscale Tracer Dispersion</i>● Anju: <i>Hybrid Physics-Informed Neural Networks with Adaptive Flux Correction for Hyperbolic PDEs</i>● Meenu: <i>Neural Network Stabilization of Chaotic Cancer Dynamics Derived from Perturbation-Reduced Models</i>● Atul Kaushik: <i>Neural Network-Based Analysis of MHD Jeffery-Hamel Flow for Couple Stress Fluids in Stretching/Shrinking Channels</i>	Numerical Methods for Hyperbolic Conservation Laws - 1 <ul style="list-style-type: none">● Sanjibanee Sudha: <i>Second order central schemes for 1D systems of nonlocal balance laws.</i>● Subhodip Ghosh: <i>Discontinuous Galerkin methods for Weak and Temple-type Hyperbolic conservation laws</i>● Balwinder Singh: <i>A compactly supported distribution function based contact discontinuity capturing Boltzmann scheme</i>● Samala Rathan: <i>Semi-implicit central scheme for hyperbolic systems of balance laws with relaxed source term</i>	Recent Advances in Numerical Methods for Newtonian and Viscoelastic Fluid Models - 3 <ul style="list-style-type: none">● Nishant Ranwan: <i>The finite element analysis of a fluid–structure interaction problem in fixed domains</i>● Bhramarbar Behera: <i>Galerkin Finite Element Analysis Of Singularly Perturbed Integro-Differential Convection–Diffusion Problems With Time Delay</i>● Udeshna Bhattacharya: <i>Streaming potential and electro viscous behavior in soft cylindrical nanochannels incorporating slip effects</i>● Rajesh Chary Kandukoori: <i>Magneto-Hydrodynamics Ternary Nanofluids Flow over an Exponentially Stretching Porous Sheet with Variable Properties: Entropy Generation</i>	From Algorithms to Applications: Numerical Methods for PDEs - 3 <ul style="list-style-type: none">● G. Murali Mohan Reddy: <i>Elliptic reconstruction and a posteriori error estimates for parabolic partial differential equations with small random input data</i>● Vishal Tiwari: <i>A novel numerical method for the Cahn–Hilliard equation with degenerate mobility and logarithmic potential</i>● Avijit Sarkar: <i>On Prey-Predator Dynamics With Hunting Cooperation Among Predators And Allee Effect In Preys</i>
12:40–14:00	Lunch (CDH III/VFR)			
14:00–14:35	Thomas Wick <i>Multigoal-oriented error estimation and adaptivity for coupled problems</i>			
14:40–15:15	Thomas Richter <i>Numerics of fluid-rigid body interactions</i>			
15:20–15:40	Coffee/Tea (LHC Lounge)			
15:40–17:00	From Theory to Computation: FEM and DG Methods for Multiphysics Problems - 1 <ul style="list-style-type: none">● Konduri Aditya: <i>Scalable asynchrony-tolerant numerical fluxes for DG solvers</i>● Surabhi Rathore: <i>Stabilised Galerkin-FE Approximations with POD-ROM for Real-Time Cardiovascular Flow Simulation</i>● Kedar Wagh: <i>A kinetic energy preserving discontinuous Galerkin scheme based on discrete kinetic model</i>● Gautam Singh: <i>Direct Discontinuous Galerkin Method for Singularly Perturbed Problems</i>	Numerical Methods for Hyperbolic Conservation Laws - 2 <ul style="list-style-type: none">● Aekta Aggarwal: <i>Nonlocal Conservation Laws, Modelling Traffic Flow and Crowd Dynamics</i>● Rahul Barthwal: <i>On a Generalized Riemann problem solver for a rich hyperbolic system</i>● Sujoy Basak: <i>Bound preserving Lax-Wendroff flux reconstruction method for special relativistic hydrodynamics</i>● Sudipta Sahu: <i>IMEX second order central scheme for discrete velocity kinetic models</i>	Recent Developments on Virtual Element Methods - 1 <ul style="list-style-type: none">● Sarvesh Kumar: <i>Three and four fields mixed formulations for poroelasticity</i>● Ankit Kumar: <i>Convergence analysis of the mixed virtual element methods for the Sobolev equation with convection</i>● Nitesh Verma: <i>A Virtual Element Method for the Biot–Brinkman Equations Using Nitsche’s Technique</i>● Aswini.N.K: <i>DGVEM for Parabolic Problems</i>	Optimal control of PDEs - 1 <ul style="list-style-type: none">● Gopikrishnan C: <i>Semi and fully discrete analysis of extended Fisher–Kolmogorov equation with nonstandard FEMs for space discretization</i>● Himani Roul: <i>Analysis of Sparse Control in Heart Tissue Dynamics Using Gradient-Driven Functionals</i>● Ankur Upadhyay: <i>Non-smooth Time-Space Control-Constrained Optimal Control Problem in a Cardiac Electrophysiology Model</i>● Maria Robert: <i>A Lagrange multiplier approach to optimal control of the monodomain model</i>
19:30	Dinner (CDH III)			

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08:30–09:00	Registration (LHC Lounge)				
09:00–09:35	Hartwig Anzt Mixed Feeling about Mixed Precision: Can we adapt Numerical Algorithms to AI Hardware?				
09:40–10:15	G D V Gowda A convergent MUSCL-Hancock Scheme for Non-Local Conservation Laws				
10:20–10:55	Joscha Gedicke P_1 and SIP Discretizations for Elliptic Optimal Control with Pointwise State Constraints				
11:00–11:20	Coffee/Tea (LHC Lounge)				
11:20–12:40	HPC/Scientific Machine Learning - 4 <ul style="list-style-type: none"> ● Mohd Vaseem: Wavelet-Based Pinn For Micropolar Mepcm Flow Over Paraboloidal Surface ● Jain M Francis: Capturing Shocks In Weakly Hyperbolic Systems Using Physics-Informed Neural Network Framework ● Geetanjli: Computation Of Waveguide Eigenmodes By Physics-Informed Neural Networks ● Mahipal Jetta: On A Fractional Telegraph-Diffusion Model For Image Denoising 	From Theory to Computation: FEM and DG Methods for Multiphysics Problems - 2 <ul style="list-style-type: none"> ● Aniruddha Seal: $C0$ Interior Penalty Method For Time-Fractional Cahn-Hilliard Equation ● Manika Bag: Well-Posedness Of Three-Dimensional Damped Cahn-Hilliard-Navier-Stokes Equations ● Suraj Kumar: A Dimensional-Splitting Non-Symmetric Interior Penalty Galerkin Method For 2D Singularly Perturbed Degenerate Parabolic Problems ● Aditi Tomar: IMEX-Alikhanov-FEM for time-fractional PDEs/PIDEs 	Recent Developments on Virtual Element Methods - 2 <ul style="list-style-type: none"> ● Ankur: A Virtual Element Framework for Modified Poisson–Nernst–Planck–Navier–Stokes of Room-Temperature Ionic Liquids ● Priyal Garg: A Meshless Hybrid Approach To The Navier–Stokes Equations ● Ambit Kumar Pany: Second order backward difference scheme combined with FEM for a 2D Sobolev equation with Burgers’ type non-linearity ● Shantanu: Time-Fractional Smoluchowski Coagulation Equation : Analytical Study 	Optimal control of PDEs - 2 <ul style="list-style-type: none"> ● Pratibha Shakya: Finite Element Method For Parabolic Optimal Control Problem With A Bilinear State Equation ● Soundarya G: Uncertainty-Aware Modeling And Optimal Control Of Ransomware Propagation ● Hemaleka A: Optimal Control Analysis Of A Fractional-Order Tuberculosis Model With Age-Structured Population ● Bhargav Kumar K: Optimal Control Of Renewal Equation With Generic Cost Functional 	From Algorithms to Applications: Numerical Methods for PDEs - 4 <ul style="list-style-type: none"> ● Richa Singh: Fast Higher Order Approximations For A Nonlinear Time-Fractional Biharmonic Equation With Initial Singularity ● Mohammad Saif: A Fixed-Point Iterative Method for Solving Fractional Order Boundary Value Problems ● Sumit Kumar: Investigating Secondary And Tertiary Vortex Phenomena in Flow Past a Circular Cylinder using Explicit RK-Type HOC Methods ● Himanshu Kumar Dwivedi: A Novel Fast Second Order Approach with High-Order Compact Difference Scheme and its Analysis for the Tempered Fractional Burgers Equation
12:40–14:00	Lunch (CDH III/VFR)				
14:00–14:35	Gernot Plank Computational Models of Cardiac Function - Closing the Gaps between Virtual and Physical Reality				
14:40–15:15	Phani Motamarri A subspace iteration eigensolver tolerant to approximate matrix-vector products: Applications to quantum modelling of materials in the exascale era				
15:20–16:20	Posters & Coffee/Tea (LHC Lounge)				
16:20–16:55	Moritz Hauck Iterative solution of Timoshenko beam network models				
17:00–18:40	HPC/Scientific Machine Learning - 5 <ul style="list-style-type: none"> ● Raghvendra Pratap Singh: Boundary Layer Physics-Informed Neural Networks For A Class Of Singularly Perturbed Fredholm Integro-Differential Equations ● Pavan Patel: Data-Driven Recovery Of Longitudinal Dispersion Parameters Via Inverse Physics-Informed Neural Networks ● Subhajit Sanfui: Towards Accelerated ODE Solvers on GPU for Industrial Applications ● Chetan Singh: Chew, Goldberger & Low Equations: Eigensystem Analysis And Applications To One-Dimensional Test Problems ● Maneesh Kumar Singh: A New Paradigm For Data Assimilation: The Global Girsanov Nudged Particle Filter 	Numerical Methods for Hyperbolic Conservation Laws - 3 <ul style="list-style-type: none"> ● Rakesh Kumar: Higher Order Accurate Numerical Schemes For Hyperbolic Conservation Laws ● Asha Kumari Meena: Robust Numerical Schemes For Two-Fluid Ten-Moment Plasma Flow Equations ● Deepak Bhoiriya: Entropy Stable ADer-DG (Arbitrary High-Order Derivative - Discontinuous Galerkin) Scheme For Conservation Laws ● Biswarup Biswas: Limiter Based Entropy Stable Weno Schemes For Relativistic Hydrodynamic Equations 	Numerical Frontiers in Fluid Dynamics and Flow Simulation - 1 <ul style="list-style-type: none"> ● Rakib Mondal: Existence And Uniqueness Of C^1 Solution to the BVP for Blood Flow Model with Body Forces ● Priyanshu Agrahari: Influence of Viscous Dissipation on Double-Diffusive Convection: Linear and Nonlinear Stability in a Couple-Stress Fluid-Saturated Porous Layer ● Shweta: Analytical Study of the Continuous Redner-Ben-Avraham-Kahnq Coagulating Cluster Dynamic Model ● Vivek Lodwal: Heat And Mass Transfer Enhancement Of Convection Driven by Thermal And Solutal Buoyancy Under Concentration Modulation ● Ritesh Kumar Dubey: Data Driven Weno Schemes For Hyperbolic Conservation Laws 	Recent Advances in PDEs, Modelling, and Applied Analysis - 1 <ul style="list-style-type: none"> ● Nitin Kumar: Bifurcation Curve Detection With Deflation For Multi-Parametric PDEs ● Radadiya Hardikkumar Sureshbhai: 2-Stage 4-Dimensional Fuzzy Stochastic Multi-Objective Transportation Problem and its solution by Random Loop-Based Non-Dominated Sorting Evolutionary Algorithm ● Kannan R: The Distance To Bounded Realness ● Vivek Subhedar Pathak: A high-order numerical method and its analysis for solving a 3D time-fractional advection–diffusion model ● Nivedita: Existence And Uniqueness Of Identification Problem For Different Kinds Of Abstract Differential Equations Using Perturbation Of Linear Operators 	Online Sessions <ul style="list-style-type: none"> ● Monika Rani: A Robust Deep Learning Framework Using ANN and PINN for Solving a class of Singularly Perturbed Fredholm Integro-Differential Equations ● Arijit Pal: A Posteriori Error Analysis of the Weak Galerkin FEM for Singularly Perturbed 2D Reaction–Diffusion Problems
19:30	Dinner (VFR)				

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08:30–09:00	Registration (LHC Lounge)			
09:00–09:35	Sandra May <i>The DoD Stabilization to solve the small cell problem</i>			
09:40–10:15	Thirupathi Gudi <i>C0-IP methods for optimal control problems governed by the PDEs in nondivergence form: Formulations and Approximations.</i>			
10:20-10:40	Coffee/Tea (LHC Lounge)			
10:40–12:40	Numerical Frontiers in Fluid Dynamics and Flow Simulation - 2	Recent Advances in Numerical Methods for Newtonian and Viscoelastic Fluid Models - 4	From Theory to Computation: FEM and DG Methods for Multiphysics Problems - 3	Recent Advances in PDEs, Modelling, and Applied Analysis - 2
10:40–11:00	• Dipti Ranjan Parida: <i>Novel Mathematical Models Capture Energy Transfer Patterns In Wave Turbulence</i>	• Ruthra J S: <i>Buoyancy Driven Convection In A Partially Open C-Shaped Enclosure Filled With A Nanofluid</i>	• Rishi Das: <i>Darcy-Forchheimer Equations : Robust Stability And Preconditioning</i>	• Panchal Vijaykumar Amrutlal: <i>Bi-Objective Optimization In Non-Markovian Finite-Capacity Retrial Queue Models With N-Policy</i>
11:00–11:20	• Devika Jayan: <i>Effect Of Temperature Modulation On Salt-Finger Convection In Micropolar Liquids</i>	• Om Prakash Meena: <i>Magnetic And Joule Heating Effects On Mixed Convection Flow Across A Vertical Cone</i>	• Kanchan Dwivedi: <i>Large Time Asymptotics For The Viscous Burgers Equation Under Impulsive Forcing</i>	• Utsavkumar Dhansukhbhai Patel: <i>Review On Mathematical Model For Permeable Reactive Barrier To Contain Volatile Organic Compound Remediation.</i>
11:20–11:40	• Sukdeb Manna: <i>A Mathematical Approach To Precision Therapeutics For Cholesterol Regulation</i>	• Angel Priya E: <i>MHD Darcy–Forchheimer Flow with Chemical Reaction along a Stretching Sheet.</i>	• Nikhil Kodali: <i>Residual-Based Chebyshev Filtered Subspace Iteration For Sparse Hermitian Eigenvalue Problems Tolerant To Inexact Matrix-Vector Products</i>	• Monalisa Anand: <i>Influence of Incubation Delays on Covid-19 Transmission in Diabetic and Non-Diabetic Populations</i>
11:40–12:00	• Sukhendu Das Adhikary: <i>Turbulence Of Thermoacoustic Internal Gravity Waves In The Lower Atmosphere Through Pde Modelling And Simulation.</i>	• Sheetal: <i>Direct Numerical Simulation Of Plane Poiseuille Flow Of A Viscoplastic Fluid In A Channel With Hydrophobic Wavy Walls</i>	• Gopika P B: <i>Novel Bidomain Partitioned Strategies For The Simulation Of Ventricular Fibrillation Dynamics</i>	• Rakesh Kumar Meena: <i>Metaheuristic Optimization And Fuzzy Modelling For M/G/1 Fault-Tolerant Machining System With Vacation</i>
12:00–12:20	• Manisha Jangir: <i>Magneto-Convection In Anisotropic Non-Darcy Porous Media With Non-Uniform Boundary Heating And Internal Heat Generation</i>	• Subrahmanyam Upadhyay: <i>Wavelet Collocation Method Applied To Study Bioheat Transfer In Skin Tissue</i>	• Anoja Vijay: <i>Finite Element Method For Two-Phase Flow Using Volume Of Fluid Method With Stabilization Techniques</i>	• Buddhadev Pal: <i>Almost Ricci–Bourguignon Soliton On Warped Product Space</i>
12:20–12:40	• Akhilesh Yadav: <i>Almost Ricci Solitons On Weakly Ricci Symmetric Perfect Fluid Spacetime.</i>		• Gourab Panigrahi: <i>Matrix-Free Algorithms For Fast Electronic Structure Calculations On Distributed Architectures Using Finite-Element Discretization</i>	• Anupam Priyadarshi: <i>From Stability to Chaos: Fractional-Order Modeling of Intra-Guild Predation with Long-Term Ecological Memory</i>
12:40–13:50	Lunch (CDH III/VFR)			
13:50–14:50	Numerical Frontiers in Fluid Dynamics and Flow Simulation - 3	A Posteriori Error Analysis and Adaptive FEM - 3	Recent Advances in PDEs, Modelling, and Applied Analysis - 3	Recent Advances in PDEs, Modelling, and Applied Analysis - 4
13:50–14:10	• Pratham Singh: <i>Coherent Structure Dynamics Of Heat Transfer In Wakes Of An Inclined Elliptical Cylinder: A Novel Lagrangian Framework</i>	• Evana Islam Sarkar: <i>Finite Element Analysis Of The 3-D Mhd System With P-Laplacian</i>	• V Umapathi: <i>Existence And Stability Results For Impulsive Fractional Integro-differential Equations Involving The Hadamard Derivative In Sobolev Spaces</i>	• Aditya Bhattacharya: <i>Determining Effectiveness Of Treatment Measures In Controlling Dengue Outbreaks Using Optimal Control</i>
14:10–14:30	• Prashant Kumar Vishwakarma: <i>A Bi-Slope Linear Distribution Function-Based Boltzmann Scheme For Fluid Flows</i>	• Priyanka: <i>Error Analysis Of A Fast ADI Compact Finite Difference Method For Two-Dimensional Semi-Linear Time-Fractional Problem With Weak Initial Singularity</i>	• Kanailal Mahato: <i>Composition Of Pseudo-Differential Operators Via Coupled Fractional Fourier Transform</i>	• Pardeep Kumar: <i>Chaos-Control Of Nanoparticles Transport In Tumors</i>
14:30–14:50	• Aiswarya R Iyer: <i>Asymptotic Dispersion Behaviour Of Contaminants In Heterogeneous Groundwater Systems Under Directional Inlet Regime</i>	• Nitin: <i>A high order numerical method for solving parabolic degenerate convection-diffusion singularly perturbed problem on the Bakhvalov-type meshes</i>	• Jyotiranjana Nayak: <i>A Comparative Analysis Of Quadrilateral And Triangular Finite Elements In SIMP-Based Topology Optimization.</i>	• Sameer Nitin Khandagale: <i>A High-Order Numerical Scheme Based On L2-1Σ-ADI Difference Method On Nonuniform Meshes For A 2D Variable Coefficients Time Fractional Reaction-Diffusion Equation</i>
14:50–15:25	Christian Engwer <i>Efficient simulation and discretization methods for brain source analysis</i>			
15:30–16:05	Volker John <i>Some experiences in using ML techniques for the numerical solution of PDEs</i>			
16:10–16:20	Closing Remarks			
16:20	High Tea (LHC Lounge)			