

# 1<sup>st</sup> European Fluid Dynamics Conference

# EFDC1

September 16<sup>th</sup> – September 20<sup>th</sup>, 2024  
Aachen (Germany)

Daily Scientific Program



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# Monday, September 16

<b>PS00</b> (H01)  Gertjan van Heijst	<b>14:00</b> <b>EUROMECH Fluid Mechanics Prize 2024: Continuum or individual models for suspensions of swimming micro-organisms?</b> <i>Pedley, Timothy J.</i>

<b>A01_01</b> (H01)  Detlef Lohse	<b>15:30</b> <b>A unifying approach for drop impact dynamics on rigid surfaces (YSA)</b> <i>Sanjay, Vatsal</i>	<b>15:45</b> <b>Effect of salt on thin film drainage (YSA)</b> <i>Aurégan, Tristan</i>	<b>16:00</b> <b>Evaporation of one and more multi-component droplets (YSA)</b> <i>Dekker, Pim j.</i>	<b>16:15</b> <b>Gravito-capillary pinning of pendant droplets under wet uneven surfaces</b> <i>Jambon-Puillet, Etienne</i>	<b>16:30</b> <b>3D tracking of dense deformable bubbles to study the life cycle of bubble clusters</b> <i>Hessenkemper, Hendrik</i>	<b>16:45</b> <b>A nanoscale view of the origin of boiling and its dynamics</b> <i>Gallo, Mirko</i>	<b>17:00</b> <b>ABYSS AEROSOLS</b> <i>Jiang, Xinghua</i>	<b>17:15</b> <b>Antibubble collapse: beyond the Taylor-Culick retraction</b> <i>André, Cyril</i>	<b>17:30</b> <b>Attached hydrogen bubbles on model wire electrodes</b> <i>Van de Velde, Pierre</i>	<b>17:45</b> <b>Analytic Approximation for Delayed Growth of Vapor Bubbles</b> <i>Avni, Orr</i>

	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45
<b>A02_01</b> (H02)  <b>Philipp Schlatter</b>	<b>Experimental investigation of a transitional boundary layer over an axisymmetric body of revolution subject to free stream turbulence (YSA)</b> <i>Liu, Yaoyao</i>	<b>Investigation of the relation between spanwise periodic structures and low-frequency breathing of a turbulent separation bubble using resolvent analysis and SPOD (YSA)</b> <i>Fuchs, Lukas M.</i>	<b>Noise sustained versus self-sustained structures in rotor-stator flow (YSA)</b> <i>Gesla, Artur</i>	<b>Constructing conditional Lyapunov functions for fluid dynamic systems</b> <i>Nagy, Péter Tamás</i>	<b>Contact Line Dynamics Effect on the Stability of Gravity-Driven Liquid Films with Spanwise Confinement</b> <i>Mohamed, Hammam</i>	<b>Discontinuous transition to shear flow turbulence</b> <i>Yang, Bowen</i>	<b>Does rare, noise-induced, bypass transition in plane Couette flow bypass instants ?</b> <i>Rolland, Joran</i>	<b>Dynamics of turbulent structures in Couette-Poiseuille flow</b> <i>Semin, Benoît</i>	<b>Large Reynolds number asymptotic analysis of the pulsating planar Poiseuille flow</b> <i>Andriano, Gaétan</i>	<b>Dynamical systems analysis of turbulent stripes</b> <i>Barkley, Dwight</i>
<b>A04_01</b> (H06)  <b>Francois Gallaire</b>	<b>Fibers settling in turbulence (YSA)</b> <i>Gambino, Alessandro</i>	<b>Particle-resolved simulations of gravity-induced settling of many spherical particles</b> <i>Moriche, Manuel</i>	<b>Reduced settling of heavy particles in homogeneous turbulence (YSA)</b> <i>Clementi, Matteo</i>	<b>An experimental quantification analysis of aerosol inhalation of real people in dynamic scenarios</b> <i>Cavagnola, Marco</i>	<b>A novel neural network-based approach to predict hydrodynamic forces on suspended particles</b> <i>Metelkin, Alexander</i>	<b>Alignment relaxation time of inertialess spheroidal particles in turbulence</b> <i>Cui, Zhiwen</i>	<b>Analysis of flow topology and particle behaviour in microcavities</b> <i>Vilkinis, Paulius</i>	<b>Chiral Particle Dynamics: Insights from Turbulent Flows</b> <i>Piumini, Giulia</i>	<b>Complete rotation rates of Kolmogorov-sized curved fibers</b> <i>Giurgiu, Vlad</i>	<b>Curved fibres in wall-bounded turbulence</b> <i>Sam, Darish Jeswin Dhas</i>
<b>A05_01</b> (H04)  <b>Wolfgang Schröder</b>	<b>Latent space representation of plunging airfoil wakes using a drag-augmented autoencoder (YSA)</b> <i>Odaka, Hiroto</i>	<b>Space and time adaptive scheme for compressible two-phase flows (YSA)</b> <i>Wang, Yijun</i>	<b>A Direct Forcing Immersed Boundary Method for Block-Gauss-Seidel Vanka Smoother formulation with Application to Multiphase Flows</b> <i>kumar, mukesh</i>	<b>A Lattice Boltzmann Approach for Fluid Flows on Spherical Surfaces</b> <i>Bellantoni, Elisa</i>	<b>A Multi-Layer Stochastic Icing Model Utilizing a Viscous Immersed Boundary Method</b> <i>Blanchet, Maxime</i>	<b>Quantum Algorithm for Simulating Advection (YSA)</b> <i>Brearley, Peter</i>	<b>Embedding Koopman operators for nonlinear flows on quantum computers</b> <i>Pfeffer, Philipp</i>	<b>Quantum Algorithm for the Lattice-Boltzmann Method</b> <i>Wawrzyniak, David</i>	<b>Towards Quantum Gaussian Process Emulation for Flow Simulations</b> <i>Hegde, Sathya-murthy</i>	<b>Variational Quantum Algorithms for simple fluid flow problems</b> <i>Ingelmann, Julia</i>

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<b>A06_01</b> (H03)  Eric Lauga	<b>The role of tail stiffness for a bio-inspired undulatory robot (YSA)</b> <i>Anastasiadis, Alexandros</i>	<b>The role of aspect ratio and mass ratio in the dynamics of flapping flags (YSA)</b> <i>Raynaud, Gaétan</i>	<b>Stability prediction of a tandem of freely oscillating cylinder for energy harvesting. (YSA)</b> <i>Mouyen, Théo</i>	<b>Slippery ellipsoidal particles under viscous shear (YSA)</b> <i>Kamal, Catherine</i>	<b>Windsurf-mimetic study about unsteady propulsion.</b> <i>Bertrand, Gauthier</i>	<b>U-shaped disks in Stokes flow: Chiral sedimentation of non-chiral particles</b> <i>Heil, Matthias</i>	<b>Transient energy growth in channel flow with compliant walls</b> <i>Alizard, Frédéric</i>	<b>The wake of a surface swimming snake</b> <i>Godoy-Diana, Ramiro</i>	<b>The scaling of drag forces on accelerating plates</b> <i>Reijtenbagh, Jesse</i>	
<b>A08_01</b> (H09)  Tobias M. Schneider	<b>Evolution mechanisms of synthetic streamwise vortices in turbulent boundary layers (YSA)</b> <i>Sun, Weiqi</i>	<b>Natural convection turbulent boundary layer along a melting vertical ice face</b> <i>Phillip, Jimmy</i>	<b>Mean Impulse Response in a Turbulent Channel Flow (YSA)</b> <i>Gattere, Federica</i>	<b>Origin of the Turbulence Structure in Adverse Pressure-Gradient Flows</b> <i>Lee, T.-W.</i>	<b>Artificially thickened boundary layer turbulence by leading-edge tripping device</b> <i>Tang, Zhanqi</i>	<b>Drag of heterogeneous rough surfaces in internal flows</b> <i>Frohnäpfel, Bettina</i>	<b>Effect of deceleration on a laminar separation bubble on an SD7003 airfoil</b> <i>Dierl, Wolfgang</i>	<b>Energy-transfer mechanisms behind the outer peak in streamwise-Reynolds-stress profiles of turbulent boundary layers</b> <i>Deshpande, Rahul</i>	<b>PIV experiment of the turbulent boundary layer over a superhydrophobic surface</b> <i>Wang, Yufei</i>	
<b>A09_01</b> (H05)  Michael Klaas	<b>High-fidelity numerical simulations of ventricular fibrillation (YSA)</b> <i>Caruso Lombardi, Filippo</i>	<b>Swimming mode determines how well mesoscale swimmers shield their odor in turbulence (YSA)</b> <i>James, Martin</i>	<b>A Computational Model of Pulmonary Edema</b> <i>Romano, Francesco</i>	<b>A large scale multipatient DNS study of nasal flow</b> <i>Gallorini, Emanuele</i>	<b>A simple numerical model for a microswimmer</b> <i>Ventrella, Francesco Michele</i>	<b>Bifurcations and nonlinear dynamics of a model for active microfilaments</b> <i>Hwang, Yongyun</i>	<b>Biofilm growth is shaped by friction forces</b> <i>Wittig, Cornelius</i>	<b>Butterfly flight aerodynamics in altered gravity: the value of neuromorphic vision</b> <i>Schweitzer, François</i>	<b>Coagulation Cascade in Patient-Specific Left Atrial Flows: Multi-Fidelity Approach for Uncertainty Quantification</b> <i>Guerrero-Hurtado, Manuel</i>	<b>Dynamics of self-propelled bacteria trains in liquid crystals</b> <i>Sintès, Guillaume</i>

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<b>A16_01</b> (S04)  <b>Vincent</b> <b>E. Terrapon</b>	<b>Non-axisymmetric patterns in floating viscoplastic films (YSA)</b> <i>Ball, Thomasina</i>	<b>Role of finite extensibility on the pressure drop of a viscoelastic fluid in a slowing varying contraction (YSA)</b> <i>Mahapatra, Bimalendu</i>	<b>Drag reduction by polymers in turbulent pipe flows: comparison between DNS and experiments (YSA)</b> <i>Serafini, Francesco</i>	<b>Investigation of the FENE-L and FENE-LS constitutive models for the computation of viscoelastic turbulent flows.</b> <i>Goffin, Pierre-Yves</i>	<b>Spectral analysis of confined turbulent jets</b> <i>Amor, Christian</i>	<b>Viscoplastic effects on a nearly homogeneous and isotropic turbulent flow</b> <i>Hergenreder, Luciano</i>	<b>Elastic turbulence in two-dimensional Taylor-Couette flows</b> <i>Campana, Lorenzo</i>	<b>Aerodynamic breakup of non-Newtonian liquid droplets</b> <i>Niranjan, Pankaj</i>	<b>Controlling emulsion rheology with active particles</b> <i>Corpart, Marie</i>	<b>Influence of non-Newtonian behaviour and axial flow on the oscillatory mode in cylindrical Couette flow with radial flux</b> <i>BEN SADEK, Sara</i>
<b>A17_01</b> (H08)  <b>Gerrit</b> <b>Elsinga</b>	<b>Componentality of the Reynolds stress tensor spectral contributions in anisotropic turbulence (YSA)</b> <i>Couteau, Arthur</i>	<b>Ensemble modeling of large-scale intermittency in turbulence (YSA)</b> <i>Bentkamp, Lukas</i>	<b>Helical Turbulence - Bridging the Gap between 2D and 3D Turbulence (YSA)</b> <i>Akbari, Shahin</i>	<b>Structure and role of the pressure Hessian in regions of strong vorticity in turbulence</b> <i>Pumir, Alain</i>	<b>A length scale for non-local multi-scale gradient interactions in isotropic turbulence</b> <i>P. Encinar, Miguel</i>	<b>A predictability-based characterization of intermittency in turbulence</b> <i>Frogé, Ewen</i>	<b>Anomalous dissipation in 3D isotropic incompressible Navier-Stokes flow</b> <i>Zinchenko, Georgy</i>	<b>Assessment of the stretched exponential functions describing extreme dissipation and enstrophy</b> <i>Elsinga, Gerrit</i>	<b>Dynamics of the triad phases in minimal shell models of hydrodynamic turbulence</b> <i>O'Brien, T. J.</i>	<b>Hidden Turbulence in Porous Media Flows</b> <i>Huang, Yongxiang</i>
<b>A26_01</b> (H07)  <b>Maurizio</b> <b>Quadrio</b>	<b>Parameter sensitivity analysis of a direct numerical simulation with heat release model as an analogy to bushfires. (YSA)</b> <i>Liu, Kevin</i>	<b>Combining deep neural networks and a differentiable lattice Boltzmann solver for wall model prediction in large eddy simulations</b> <i>Salehipour, Hesam</i>	<b>A machine-learning-based zonal approach for turbulence modeling</b> <i>Castelletti, Marco</i>	<b>Convolution-compacted vision transformers for wall heat-flux modelling in turbulent channel flow</b> <i>Wang, Yuning</i>	<b>Data-driven scale-adaptive turbulence closure modeling</b> <i>Ahizi, Samuel</i>	<b>Easy-attention-based transformer for temporal predictions of turbulent flows (YSA)</b> <i>Sanchis Agudo, Marcial</i>	<b>Embedded learning of a wall model for separated flows</b> <i>Zhou, Zhideng</i>	<b>Machine learning and CFD can work together for surgery planning in the human nose</b> <i>Quadrio, Maurizio</i>	<b>Mean flow data assimilation of turbulent stenotic flow fields using physics-informed neural networks on 4D-flow MRI</b> <i>Villié, Alexandre</i>	

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<b>A29_01</b> (S03)  Panagiota Angeli	<b>Impact of convective transport on thermoelectric energy harvesting in narrow channels (YSA)</b> <i>Pandey, Doyel</i>	<b>Dynamics of flexible fibers in complex viscous flows in pillar arrays and their separation (YSA)</b> <i>Li, Zhibo</i>	<b>Combined pressure driven and electro-magneto-hydrodynamic (EMHD) flow in a wavy microchannel in presence of streaming potential</b> <i>Roy, Apurba</i>	<b>Controlling electroosmosis in nanopores tuning the pore surface charge</b> <i>Chinappi, Mauro</i>	<b>Discrete Simulation of a Non-Equilibrium Monoatomic Gas Flow around a Spherical Nanostructure</b> <i>Döntgen, Malte</i>	<b>Hydrodynamic analysis of ionic liquids in small channels: Nd extraction.</b> <i>Pheasey, Charlotte</i>	<b>Influences of wall impedance on acoustophoretic aggregation inside SSAW-based microchannels</b> <i>Li, Yiming</i>	<b>Focused ultrasound induced fluid flow in a silicon capillary determined via micro-PIV treatment</b> <i>Ghiringhelli, Elisa</i>		
<b>A30_01</b> (S05)  Sergio Hoyas	<b>Spanwise organization of the separated flow over a forward facing step</b> <i>Podvin, Berengere</i>	<b>The effects of wind tunnel ground conditions on the flow topology in the turbulent near wake of an Ahmed body</b> <i>Kumar, Manish</i>	<b>Data assimilation of 3D turbulent separated flows (YSA)</b> <i>Cadambi Padmanaban, Uttam</i>	<b>Attitude effect on the stable and unstable recirculating flow of a blunt rectangular trailing edge body with wall proximity</b> <i>Cadot, Olivier</i>	<b>Biglobal resolvent analysis of separated flows around a NACA0012 airfoil</b> <i>Rolandi, Laura Victoria</i>	<b>Comparative Analysis of Reynolds Stress and Eddy Viscosity Models in Hybrid RANS/LES Simulation of the Appendage-Body Junction Flow around an Underwater Vehicle</b> <i>Wang, Gang</i>	<b>Comprehensive Investigation of Flow Dynamics around Rotating Cylinders</b> <i>Lin, Jianfeng</i>	<b>Effect of upstream-edge rounding on the flow around square and rectangular cylinders</b> <i>Mariotti, Alessandro</i>	<b>SEEKING FOR RARE EVENTS IN A BACKWARD-FACING STEP FLOW USING REAL-TIME PARTICLE IMAGE VELOCIMETRY (YSA)</b> <i>Pimienta, Juan Sebastian</i>	
<b>A33_01</b> (S01)  Matthias Meinke	<b>Determination of the acoustic transmission behaviour of pipe sections with local cavitation bubbles in water</b> <i>Hartwich, Patrick S.</i>	<b>Validation of a Semi-Empirical Wind Turbine Noise Prediction Tool (YSA)</b> <i>Gimeno-García, Andrés V.</i>	<b>Acoustic Emission of Thermally Unstable Premixed Lean Hydrogen-Air Slit Flames</b> <i>Pedro Beltran, Borja</i>	<b>Numerical analysis of landing gear noise control by porous fairings</b> <i>Gondrum, Miro</i>	<b>The effect of acoustic liners with cooling bias flow on the high order acoustic modes in a cylindrical duct</b> <i>Hu, Yifan</i>	<b>BTGNX - A systematic experimental and numerical study of tip-gap noise</b> <i>Liberson, Lev</i>	<b>Direct lattice Boltzmann computation of high-lift noise with and without noise reduction technologies applied</b> <i>Soni, Malav</i>	<b>Frequency analysis and space-time correlations of hydroacoustic noise beneath an impinging round wall jet boundary layer</b> <i>Stocking, Jonathan B.</i>	<b>Impact of Turbulent Inflow on Acoustics of a Propeller Operating at Low Reynolds Number</b> <i>Ali, Mario</i>	<b>Resolvent analysis of airfoil noise</b> <i>Jouin, Antoine</i>

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<b>A34_01</b> (S02)  Mickaël Bourgoïn	<b>A Novel Reduced-order Modeling Approach for Flash-boiling Sprays (YSA)</b> <i>Saha, Avijit</i>	<b>Atomization of Molten Metal Droplets with High Speed Impact-Rotary Atomizer Under Low Vacuum Conditions (YSA)</b> <i>Kayansalçik, Gökhan</i>	<b>Distribution, dispersion, and kinematics of droplets in swirling sprays (YSA)</b> <i>Sahoo, Santanu Kumar</i>	<b>Effect of jet spacing on the characteristics of dual jet injection in supersonic crossflow (YSA)</b> <i>Kukkarasi, Ramana</i>	<b>Effect of Orifice Length-to-Diameter Ratio on Fragmentation of non-Newtonian Liquid Sheet (YSA)</b> <i>Ratnu, Surendra Singh</i>	<b>Liquid column fragmentation in a wind tunnel airflow</b> <i>Legendre, Dominique</i>	<b>Single Droplet Atomization in a Fan-Stirred Isotropic Turbulence Flow Chamber with Zero-Mean Velocity (YSA)</b> <i>Coşar, Veli Can</i>	<b>Visualisation of primary break-up in closed-coupled gas atomization (CCGA) using digital holography</b> <i>van Hout, Rene</i>		
<b>MS03_01</b> (S06)  Adrien Lefauve	<b>The (un)stable stratification of carbon dioxide at supercritical pressures (YSA)</b> <i>Draskic, Marko</i>	<b>Experimental investigation of the presence of large-scale structure in RTI (YSA)</b> <i>Nixon, Stefan S</i>	<b>Experimental investigation of internal-wave driven stratified turbulence at large Reynolds numbers</b> <i>Passaggia, Pierre-Yves</i>	<b>The wind driving centrifuged convection to turbulence</b> <i>Lopez, Juan M.</i>	<b>The Stratified Inclined Duct (SID): an experimental paradigm for stratified turbulence and mixing</b> <i>Lefauve, Adrien</i>	<b>Modal and nonmodal stability analysis of turbulent stratified channel flows</b> <i>ROBINET, Jean-Christophe</i>	<b>Mean flow generation via non-resonant interactions in two-dimensional forced stratified turbulence</b> <i>Billant, Paul</i>	<b>Localised mixing in stably stratified shear layers: Influence of flow structure strength</b> <i>Jiang, Xianyang</i>		



# Tuesday, September 17

<b>PS01</b> (H01)  Detlef Lohse	<b>08:30</b> <b>Chiral transport in viscous flows: from micro-helices to bacteria</b> <i>Lindner, Anke</i>

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<b>A01_02</b> (H01)  Kerstin Avila	<b>Bubble kinematics in polydisperse coalescing swarms</b> <i>Ruiz-Rus, Javier</i>	<b>Bubbling regimes in water electrolysis using a membraneless electrolyzer</b> <i>Torkian, Mohammad</i>	<b>Clustering and solutal convection in droplet microswimmers</b> <i>Ramesh, Prashanth</i>	<b>Complex morphology on the underside of a Leidenfrost-levitated hydrogel sphere</b> <i>Díaz Melian, Vicente Luis</i>	<b>Interactions of a cavitation bubble with a rigid particle on an elastic boundary (YSA)</b> <i>Ren, Zibo</i>	<b>Isolated bubble growth in pool and flow boiling in microgravity conditions</b> <i>Mbaye, Modou</i>	<b>Millimetric marble gliding in a soap film (YSA)</b> <i>Louyer, Youna</i>	<b>Freezing of drops</b> <i>Lohse, Detlef</i>
<b>A02_02</b> (H02)  Jörn Lothar Sesterhenn	<b>What does the transition to turbulence in shear flows tell us about the buckling of elastic slender structures (YSA)</b> <i>Yang, Tian</i>	<b>Variational computation of invariant solutions in wall-bounded chaotic flows (YSA)</b> <i>Ashtari, Omid</i>	<b>Effects of heavy and light particles on Rayleigh-Benard instability</b> <i>Raza, Saad</i>	<b>Effects of streamwise-grooved spanwise-periodic surface roughness arrays on boundary-layer instability</b> <i>Zheng, Jianing</i>	<b>Evolution of a single stationary globally unstable instability in shock-wave-boundary-layer interaction at Mach 6</b> <i>Song, Ziming</i>	<b>Excitation of low-frequency Kelvin-Helmholtz modes by modulated large-scale vortical structures on a planar mixing layer</b> <i>Zhang, Zhongyu</i>	<b>Thermoelectric instability of a dielectric fluid in a Taylor-Couette system with different configurations.</b> <i>Hamede, Mohammed Hussein</i>	

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<b>A03_01</b> (H04)  <b>Christoph Bruecker</b>	<b>Competition between natural and forced convection in dissolution patterns (YSA)</b> <i>Chaigne, Martin</i>	<b>Finite-Amplitude Solutions &amp; Multistability in Magnetoconvection (YSA)</b> <i>McCormack, Matthew</i>	<b>How the growth of sea ice depends on the surrounding fluid dynamics (YSA)</b> <i>Du, Yihong</i>	<b>AtmoFlow: Convective regimes in differential spherical shell rotation with electric central force field</b> <i>Gaillard, Yann</i>	<b>Boundary-layer disruption and heat-transfer enhancement in convection turbulence by oscillating deformations of boundary</b> <i>Yuan, Leiqi</i>	<b>Bounds on emergent quantities in rotating convection heated internally</b> <i>Arslan, Ali</i>	<b>Direct numerical simulations of turbulent Rayleigh-Bénard convection with polymer additives</b> <i>Song, Jiaxing</i>	<b>Analytical Scaling Rate for Chaotic Stage bubble evolution of Rayleigh-Taylor Instability</b> <i>Ruan, Yucang</i>
<b>A04_02</b> (H06)  <b>Gregory Lecrivain</b>	<b>Aggregate growth of cohesive particles in micro-gravitational oscillations on board the International Space Station (YSA)</b> <i>Kleischmann, Fabian</i>	<b>Flow and entanglement of dense suspensions of soft fibers</b> <i>Vlad, Catalin</i>	<b>Inhomogeneous capillary flow of non-Brownian suspensions (YSA)</b> <i>Thiévenaz, Virgile</i>	<b>Individual and collective motion of phoretic particles with complex shapes</b> <i>Delmotte, Blaise</i>	<b>Numerical consideration of the formation and decline of a granular suspension state</b> <i>Keese, Hannah</i>	<b>Rheology of bubble suspensions in unsteady shear flows</b> <i>Ohie, Kohei</i>	<b>Stokesian dynamics simulations of sedimenting polydisperse suspensions with a continuous size distribution and hindrance function modelling</b> <i>Li, Heng</i>	<b>How do shear-thickening suspensions flow through pipes?</b> <i>Lhuissier, Henri</i>
<b>A06_02</b> (H03)  <b>Manuel Garcia-Villalba</b>	<b>Non-linear flow-structure response of minimal bio-inspired channels with flexible valves (YSA)</b> <i>Abukabsha, Omar</i>	<b>Flow sensing in fluid-structure interaction systems using hybrid deep neural network and reduced-order model</b> <i>Li, Chunna</i>	<b>Dragonflies flight: Fluid structure interaction of artificial wings (YSA)</b> <i>Aracheloff, Camille</i>	<b>Influence of the three-dimensional deformations of a kirigami on the flow in a confined channel (YSA)</b> <i>Schmider, Agathe</i>	<b>The Effect of Wall Elasticity on Turbulent Channel Flow</b> <i>Koseki, Morie</i>	<b>Snap-induced flow in a closed channel</b> <i>Oshri, Oz</i>	<b>Settling of magnetic rods in quiescent fluid</b> <i>Bera, Samuel</i>	
<b>A10_01</b> (H07)  <b>Aleksandr Bashkatov</b>	<b>Coupled VOF-IBM framework for particle-droplet spreading and jumping with strong capillary forces (YSA)</b> <i>Konstantinidis, Konstantinos</i>	<b>A Cahn-Hilliard-type modelling of immiscible Liquid-liquid phase separation with soluble surfactant</b> <i>Liu, Tian</i>	<b>Analysis of experiments on bubble breakup under idealised conditions</b> <i>Zednikova, Maria</i>	<b>Boiling heat transfer by phase-field method</b> <i>Roccon, Alessio</i>	<b>Bubble clouds formed by multi-plunging jets</b> <i>Dev, Narendra</i>	<b>Cavitation bubble near a wall: Comparison between experiments and simulations</b> <i>Yang, Zhidian</i>	<b>Emulsion Separation in Channel Flow: Impact on Electrolyte Resistance in Membrane-less Flow Batteries (YSA)</b> <i>Kuperman, Sofia</i>	

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A11_01</b> (H09)  Pourya Forooghi	<b>DNS of flow past a normal plate with staggered perforations (YSA)</b> <i>MANOJ KUMAR, CHITUMALLA</i>	<b>Exploring flow dynamics behind novel-shape bluff bodies - LES investigation (YSA)</b> <i>Caban, Lena</i>	<b>Turbulent channel flows over transversely isotropic porous substrates: A homogenization-based numerical investigation</b> <i>Ahmed, Essam Nabil</i>	<b>Linear system identification on time-varying base flows: experiments in cavity flows</b> <i>Leclercq, Colin</i>	<b>Compressibility Effects on Drag Reduction in Turbulent Boundary Layers by Spanwise Traveling Waves</b> <i>Shao, Xiao</i>	<b>Experimental analysis of turbulent flow separation control using wall corrugation under different flow history</b> <i>Drózdź, Artur</i>	<b>Impact of Pre-conditioning on Turbulent Flow Characteristics in Smooth and Rough Pipes – an Investigation through Experiments and High-Fidelity Simulations</b> <i>Nozarian, Sina</i>	<b>LES Analysis of Turbulence Generated by Active Grid: Effect of Winglet Shape and Motion Protocol</b> <i>Akardere, Alper</i>
<b>A15_01</b> (S03)  Christian Diddens	<b>2D lubricated surfaces and surfactant-induced Marangoni flows (YSA)</b> <i>Vallon, Romain</i>	<b>Assessment of shear flows over lubricant-infused surfaces using mini-fluidic experiments (YSA)</b> <i>Cui, Zhuxuan</i>	<b>Capillary evaporation of salty solutions: to diffuse or to creep?</b> <i>Mukhopadhyay, Manikuntala</i>	<b>Capillary waves and effective water/water contact angle at the base of an impinging jet (YSA)</b> <i>Gaichies, Théophile</i>	<b>Surface deformation of a thin liquid film in the vicinity of a vertical fiber (YSA)</b> <i>Etienne-Simonetti, Alice</i>	<b>Contribution to understanding the dynamics of thinning liquid bridges</b> <i>Fritzsche, Lisa</i>	<b>Dip coating on complex surfaces : from elastomers to liquid-infused surfaces</b> <i>Varlet, Anthony</i>	<b>Drainage of mobile soap films under gravity: characterizing the space-time dynamics</b> <i>Raufaste, Christophe</i>
<b>A18_01</b> (H08)  Marco Edoardo Rosti	<b>Correlation of helicity with coherent structures for scalar transport in channel flow</b> <i>Papavassiliou, Dimitrios V.</i>	<b>Fronts of a passive scalar identified as diffusion barriers</b> <i>Sierra-Ausin, Javier</i>	<b>Lagrangian investigation of wind turbine wakes at high Reynolds numbers (YSA)</b> <i>Le Turnier, Lorenn</i>	<b>Non-Gaussian statistics of relative dispersion in rotating-stratified turbulence (YSA)</b> <i>Gallon, Sebastian</i>	<b>Surprising aspects of Lagrangian dispersion in shock-dominated turbulence (YSA)</b> <i>De, Sadhitro</i>	<b>An enstrophy-based analysis of the Kolmogorov-Hinze scale in turbulent fragmentation</b> <i>Saeedipour, Mahdi</i>	<b>Universal alignment in turbulent pair dispersion</b> <i>Shnapp, Ron</i>	
<b>A20_01</b> (H10)  Lev She- mer	<b>Boat wake absorption by a microstructured wall (YSA)</b> <i>Kucher, Samantha</i>	<b>Metabathymetry: Restoring regular sloshing modes in irregular cavities (YSA)</b> <i>Anglart, Adam</i>	<b>A dynamical systems approach for understanding emergent wave phenomena in coupled nonlinear wave systems</b> <i>Deshmukh, Savyaraj R.</i>	<b>Anderson localization of non-linear surface gravity waves</b> <i>Ricard, Guillaume</i>	<b>Breaking water waves: viscous and inviscid models</b> <i>Dormy, Emmanuel</i>	<b>Breaking water waves and the high Reynolds number limit</b> <i>Riquier, Alan</i>	<b>Experimental dispersion relation of Kelvin waves along a free-surface vortex</b> <i>Falcon, Eric</i>	<b>Experimental Study on Shock Wave Evolution in an Expansion-Deflection Nozzle Induced by Total Pressure Variations</b> <i>Zhou, Bocheng</i>

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A21_01</b> (S02)  <b>Sergio Pirozzoli</b>	<b>Emergence of fine structures in turbulent mixing in a T-mixer (YSA)</b> <i>Zamani Asl, Mohammad Mehdi</i>	<b>Exploring Mixing with Diffuselet Method (YSA)</b> <i>Scollo, Simone</i>	<b>Scalar mixing efficacy in pulsatile channel flow (YSA)</b> <i>Li, Yijie</i>	<b>Active particles in a cellular flow: an experiment</b> <i>Raynal, Florence</i>	<b>Assessing Aerosol Transmission Risk in Indoor Environments: High-tempo Spatial Resolution Measurement Study</b> <i>Khodamoradi, Hossein</i>	<b>Effects of large density contrasts on scale-by-scale energy transfers in Unstably Stratified Homogeneous Turbulence</b> <i>Danaila, Luminita</i>	<b>Hydrodynamics of structured fluids in stirred reactors</b> <i>Montante, Giuseppina</i>	
<b>A22_01</b> (H11)  <b>Michael LE BARS</b>	<b>Condensate formation in three-dimensional rotating turbulence (YSA)</b> <i>Gomé, Sébastien</i>	<b>Critical slope beams in a non-uniformly rotating fluid. Reflection at a turning point.</b> <i>LE DIZES, Stephane</i>	<b>Experiments Investigating the Dynamics of Vortex Rings in a Rotating Fluid</b> <i>Jackson, Oliver C</i>	<b>Local instabilities of helical flows in a cylindrical annulus with radial heating</b> <i>Kirillov, Oleg</i>	<b>Bluff obstacles in a superfluid: stationary, periodic and chaotic wake solutions (YSA)</b> <i>Geracitano, Niccolò</i>	<b>Quantum turbulence : an energy-consistent closure for the HVBK equations</b> <i>Roche, Philippe-e</i>	<b>Velocity fluctuation of normal-fluid by different mutual friction models in superfluid helium-4</b> <i>Kobayashi, Hromichi</i>	<b>Conformally invariant statistics in two-dimensional quantum fluids of light</b> <i>Lanotte, Alessandra Sabina</i>
<b>A23_01</b> (S01)  <b>Sven Scharnowski</b>	<b>Simultaneous particle image velocimetry and wave measurement with fringe projection profilometry (YSA)</b> <i>Semati, Ali</i>	<b>Concentration measurements of supersonic underexpanded jets immersed in an atmospheric boundary layer via light extinction spectroscopy</b> <i>Sanapo, Carlo</i>	<b>A flexible sheet sensor for flow direction and wall shear stress</b> <i>Miyake, Genta</i>	<b>Defocusing PTV for the viscous wall region of a turbulent channel flow</b> <i>Leister, Robin</i>	<b>Development of a new experimental set-up to probe the thin boundary layer of free convection from a side-heated vertical wall with liquid helium up to <math>Ra \sim 10^{15}</math></b> <i>Raba, Matthias</i>	<b>Effects of the spatial resolution of PIV on measured turbulence multi-point statistics</b> <i>Gong, Xuechun</i>	<b>Side vortices visualization in high-speed wind tunnel by Mie scattering</b> <i>Leonov, Sergey B</i>	
<b>MS01_01</b> (H05)  <b>Ricardo Vinuesa</b>	<b>Keynote: Stochastic Multi-Scale Reconstruction of Turbulent Rotating Flows with Generative Diffusion Models</b> <i>Buzzicotti, Michele</i>		<b>A Synergistic Aerodynamic Design Framework Integrating Integrating Flow Control and Shape Optimization (YSA)</b> <i>Zheng, Changdong</i>	<b>Transport Maps as Stochastic Surrogates for Bayesian Inference of Wetting Processes</b> <i>Bonart, Henning</i>	<b>Testing Multi-scale Data Assimilation in Turbulent Models</b> <i>Fossella, Francesco</i>	<b>Stochastic reconstruction and forecasting of Lagrangian turbulence with generative diffusion models</b> <i>Li, Tianyi</i>	<b>Solver-in-the-loop approach to subgrid-scale modeling</b> <i>Freitas, André</i>	<b>Sequentially Trained Autoencoder for efficient Latent Decomposition</b> <i>Saetta, Ettore</i>

		10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>MS03_02</b> (S06)	Paul Lin- den	<b>Dispersion in stratified turbulent flows: a re-setting process? (YSA)</b> <i>Petropoulos, Nicolaos</i>	Can stable stratification switch off turbulence in inclined gravity currents? (YSA) <i>Cui, Lianzheng</i>	<b>Evidence for layered anisotropic stratified turbulence in a freely evolving horizontal shear flow</b> <i>Caulfield, Colm-cille Patrick</i>	Energy spectra of non-local internal gravity wave turbulence <i>Lanchon, Nicolas</i>	<b>DNS of the stratified plane Couette flow up to <math>\{Re_\tau, Ri_\tau\} = 1000</math></b> <i>Avsarkisov, Victor</i>	Contaminant lock-up induced by plume termination in in displacement ventilated enclosures Contaminant lock-up induced by plume termination in in displacement ventilated enclosures <i>QIN, CHAO</i>		

		13:00
<b>PS02</b> (H01)	Jacques Magnaudet	<b>A multiphase flow vision of sediment transport : what can we learn from fluid mechanics?</b> <i>Chauchat, Julien</i>

		14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A01_03</b> (H01)	Kerstin Avila	<b>Morphology and Stability of Droplets sliding on viscoelastic substrates</b> <i>Roché, Matthieu</i>	Coupled bulk and interfacial transport of surfactants govern the settling of a drop towards a wall <i>Jadhav, Sayali Nititn</i>	<b>Curvature effect on the sound of a bubble popping in a droplet</b> <i>Sahoo, Nilamani</i>	Deformations of a hydrogel during freezing <i>Protiere, Suzie</i>	<b>Different crater scales induced by the impact of a water drop on a granular bed</b> <i>PONTIER, Alexandre</i>	Reducing foam friction with self slippery liquid-infused porous surfaces <i>Boulogne, François</i>	<b>Minimum current for detachment of electrolytic bubbles</b> <i>Zhang, Yixin</i>	

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A02_03</b> (H02)  Angela Busse	<b>Time-periodic bursting cycles on the edge to turbulence in open and closed duct flows (YSA)</b> <i>Scherer, Markus</i>	<b>The influence of aortic wall geometry and leaflet fluttering on three-dimensional laminar-turbulent transition mechanisms past bio-prosthetic aortic valves (YSA)</b> <i>Bornemann, Karoline-Marie</i>	<b>Sonic bloom: how flowers may arise from acoustic streaming jets</b> <i>Botton, Valéry</i>	<b>Exploring Non-Parallel Terms effects in Jet-Plate Interaction: Insights from Local Instability Theory and Wavepacket Analysis</b> <i>Avanci, Mateus Peixoto</i>	<b>FEM simulation of Taylor-Couette flows under dielectrophoretic force</b> <i>Roller, Jonas</i>	<b>Ghosts underlying coherent flow structures</b> <i>Schneider, Tobias M</i>	<b>Global instability of shear layers produced by surface roughness</b> <i>Healey, Jonathan James</i>	
<b>A03_02</b> (H04)  Christoph Bruecker	<b>MRI experiments of convection in a porous medium with phase change</b> <i>Sgreva, Nicolo Rubens</i>	<b>Statistical properties of thermal convecting concentrated emulsions at the onset of phase inversion (YSA)</b> <i>Pelusi, Francesca</i>	<b>Surface morphology of a vertical ice cylinder melting in a saline environment (YSA)</b> <i>Bootsma, Simen T.</i>	<b>The influence of streamwise-aligned ridges on the dynamics of convective rolls (YSA)</b> <i>Schäfer, Kay</i>	<b>Classical 1/3 Nusselt number scaling up to <math>Ra = 10^{18}</math></b> <i>Tiwari, Harshit</i>	<b>Competing aggregation and iso-density equilibrium lead to band patterns in density gradients</b> <i>Darras, Alexis</i>	<b>Compressible turbulent convection in the strong stratification limit</b> <i>Schumacher, Jörg</i>	<b>Computation of Richardson number and entrainment using direct numerical simulation of a turbulent plume</b> <i>Carlotti, Pierre</i>
<b>A04_03</b> (H06)  Cristian Marchioli	<b>Viscous to Inertial Transition in Dense Granular Suspensions</b> <i>Tapia, Franco</i>	<b>Dynamics of Granular Mixing: Insights from DEM Simulations and Experimental Observations</b> <i>Havlica, Jaromir</i>	<b>Rheology of a granular medium mixed with flexible fibers</b> <i>Wierzchalek, Ladislav</i>	<b>Reorganization of grains and bed armoring in granular beds</b> <i>Franklin, Erick</i>	<b>Modelling dense powder flow with CFD inside a rotating drum and a screw reactor</b> <i>Chatre, Lucas</i>	<b>Granular flow dynamics in the transverse plane of a rotary drum using a phase field technique for multiphase modeling.</b> <i>Balachtsis, Athanasios</i>	<b>Dynamics of penetration into a granular medium by successive impacts</b> <i>Darbois Texier, Baptiste</i>	<b>A new constitutive law for immersed granular flows including weak inertial effects</b> <i>Fry, Benjamin</i>
<b>A07_01</b> (H03)  Markus Rütten	<b>A numerical and experimental approach to stall hysteresis on a two-element wingsail (YSA)</b> <i>Hillenbrand, Antonia</i>	<b>Dynamics of optimally perturbed wing-tip vortices: beyond Crow instability (YSA)</b> <i>Navrose, Navrose</i>	<b>Global instability in scramjet flow (YSA)</b> <i>Variante, Donato</i>	<b>Transonic shock buffet unsteadiness towards onset and offset conditions (YSA)</b> <i>Schauerte, Christopher Julian</i>	<b>A Unified Thermodynamic/Vortical Far-Field Force Method</b> <i>Minervino, Mauro</i>	<b>Development of a hybrid inviscid model for airfoils in unsteady flows</b> <i>Deparday, Julien</i>	<b>Aerodynamic characterisation of isolated cycling wheels using load and flow field measurements</b> <i>Mao, Jiaqi</i>	<b>Electroactive morphing of an A320 wing prototype through traveling wave actuation for aerodynamic performance increase at high Reynolds number</b> <i>Abou Khalil, Jacques</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A10_02</b> (H07)  Shervin Bagheri	<b>Formation of Görtler Vortices in an Open-End Pressure Swirl Atomizer (YSA)</b> <i>Uzun, Mustafa Aykan</i>	<b>Transport of gas bubbles by vortex rings (YSA)</b> <i>Liu, Zhixuan</i>	<b>Collective melting of ice shapes at a free surface</b> <i>Kriaa, Quentin</i>	<b>Computational Study on Primary Nucleation Zones in Vertical Falling Film Evaporators</b> <i>Vleeschhouters, Denis</i>	<b>Drag and lift forces on a bubble rising in the proximity of a vertical wall</b> <i>Estepa-Cantero, Cecilia</i>	<b>Dynamics of inertial particles in turbulent flows in micro-gravity</b> <i>Cabrera-Booman, Facundo</i>	<b>Effects of buoyant flow on the coarsening of finite size samples</b> <i>Bounjad, Abder-raouf</i>	<b>Emergent interface dynamics in two-phase flow past a circular cylinder</b> <i>Patel, Kuntal</i>
<b>A11_02</b> (H09)  Bettina Frohnapfel	<b>Oscillation control for turbulent drag reduction</b> <i>Ruby, Marius</i>	<b>Pressure Gradient Effects on the Riblet Performance at Cruising Speed of Transonic Aircraft</b> <i>Kaneko, Kento</i>	<b>Separation control of a NACA 4412 with 25° sweep at high Reynolds numbers using pulsed-jet actuators</b> <i>PASSAGLIA, Pierre-Yves</i>	<b>Two-point correlation analysis of large-scale structure in a turbulent channel flow installed with the flexible thin film</b> <i>Nagino, Shinya</i>	<b>Experimental flow control of a turbulent separated flow using sweeping jet actuators (YSA)</b> <i>Tocquer, Mathieu</i>	<b>Optimal control of the flow past a cylinder with compliant splitter plate using piezoelectric actuators (YSA)</b> <i>Cruciani, Simone</i>	<b>Control of the late stages of laminar-turbulent transition using Deep Reinforcement Learning</b> <i>Guzman-Inigo, Juan</i>	<b>Optimal Control in porous flow system. Application for Urban Heat Island Intensity Mitigation</b> <i>Mouhali, Waleed</i>
<b>A12_01</b> (S04)  Julia Kowalski	<b>Aerial observation of the propagation of surface waves in fragmented sea ice</b> <i>KUCHLY, Sébastien</i>	<b>An experimental analogue of moist convection (YSA)</b> <i>Valentin, Dorel</i>	<b>Oscillating settling behavior of submillimetric non-spherical atmospheric particles (YSA)</b> <i>Bhowmick, Tara-prasad</i>	<b>Extreme values in geostrophic turbulence: laboratory data from baroclinic wave experiments</b> <i>Harlander, Uwe</i>	<b>Analysis of the waves/geostrophic/mix in rotating turbulence</b> <i>Delache, Alexandre</i>	<b>Beyond spherical boundaries in deep fluid layers of planets</b> <i>Personnetaz, Paolo</i>	<b>Exchange flows with viscous fluids in a vertical or tilted tube</b> <i>Bruhier, Hadrien</i>	<b>Experimental study of gravity current propagation over rough tilted surfaces.</b> <i>Shehata, Mostafa</i>
<b>A13_01</b> (S06)  Fernando Pinho	<b>Coherent structures in turbulent annular swirling jets (YSA)</b> <i>P. P. de Vasconcelos, Bernardo</i>	<b>Finite time evolution of flow structures at turbulent / non-turbulent interface (YSA)</b> <i>Khojasteh, Ali Rahimi</i>	<b>Flow Measurements in the Near Wake of a Superhydrophobic Sphere with a Sustained Plastron (YSA)</b> <i>Davey, Shaun</i>	<b>Induced Periodicity in Wake Interactions of Porous Discs (YSA)</b> <i>Neunaber, Ingrid</i>	<b>Investigation of Turbulent/Turbulent Interfaces by means of Direct Numerical Simulations (YSA)</b> <i>Alves, Pedro D.</i>	<b>Advecting flow structures through space-only Hilbert POD</b> <i>Raiola, Marco</i>	<b>Can a compressible jet sustain a significant level of turbulence in a (magnetized) turbulence environment?</b> <i>Kube, David</i>	
<b>A14_01</b> (H11)  Anne-Marie Schreyer	<b>Controlling tip vortices and cavitation through local permeability (YSA)</b> <i>Liu, Yabin</i>	<b>Information-theoretic description of the “forgetful” energy cascade (YSA)</b> <i>Araki, Ryo</i>	<b>3D Tomographic PTV investigation of three leap frogging vortex rings.</b> <i>Sperotto, Pietro</i>	<b>A new three-dimensional structure in the flow around a circular cylinder at Reynolds number 300 and Mach number 0.3</b> <i>Su, Youtian</i>	<b>An experimental study of the starting vortices shed by a cylinder of elliptical cross-section accelerating from rest in superfluid helium-4</b> <i>La Mantia, Marco</i>	<b>Coherent structures and pressure fluctuations in turbulent boundary layer along a slender cylinder</b> <i>Xu, Yikai</i>	<b>Topological change of helical vortex disturbed by long-wave instability</b> <i>Hattori, Yuji</i>	<b>A linear response theory of vortex meandering and its statistical verification in experiments (YSA)</b> <i>Bölle, Tobias</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A15_02</b> (S03)  <b>Gareth McKinley</b>	<b>Drying of flexible fibers suspensions</b> <i>L'Estimé, Manon</i>	<b>Effect of surfactants and Contact Angle Hysteresis on droplet on solid substrate</b> <i>Kunchi Kannan, Parvathy</i>	<b>Effect of swelling on the spreading dynamics of a drop deposited on a soft substrate</b> <i>Duprat, Camille</i>	<b>Evaporating sessile droplets: solutal Marangoni effects overwhelm thermal Marangoni flow</b> <i>Rocha, Duarte</i>	<b>Exploring the stability of rod-annular flow for non-magnetic and magnetic fluids</b> <i>Ferguson Briggs, Sarah Helen</i>	<b>Flows in bursting soap film</b> <i>Guillemot, Alexandre</i>	<b>Frozen capillary waves in dried films of polymer solutions resulting from a capillary rise</b> <i>Di Mauro, Gabrielle</i>	<b>Instability in a horizontal soap film</b> <i>Cantat, Isabelle</i>
<b>A18_02</b> (H08)  <b>Alfredo Soldati</b>	<b>A linear stochastic model to predict bubble breakup in turbulence (YSA)</b> <i>Rivière, Aliénor</i>	<b>How small droplets form in turbulent multiphase flows (YSA)</b> <i>Crialesi Esposito, Marco</i>	<b>Viscosity influence on heat transfer in drop-laden turbulence (YSA)</b> <i>Mangani, Francesca</i>	<b>Coagulation of droplets drives turbulence in binary fluid mixtures</b> <i>Pandey, Vikash</i>	<b>Computational Modelling of Flow Dynamics in Industrial Spray Drying</b> <i>Saha, Suharto</i>	<b>Direct numerical simulation of bubble collision, bounce and coalescence in bubble-induced turbulence</b> <i>Jin, Yan</i>	<b>DNS of shear turbulence interacting with a melting-freezing ice layer</b> <i>Perissutti, Diego</i>	<b>Enhanced transport of long fibres by pole vaulting in turbulent wall-bounded flow</b> <i>Brouzet, Christophe</i>
<b>A20_02</b> (H10)  <b>Frédéric Dias</b>	<b>Exploring ocean wave measurements from multiple perspectives</b> <i>Dias, Frédéric</i>	<b>From softening to hardening sloshing resonances for decreasing filling levels</b> <i>Richter, Larissa</i>	<b>Nonlinear resonant standing gravity waves in a narrow cavity</b> <i>Mogilevskiy, Evgeny</i>	<b>Ocean wave prediction zones in a probabilistic framework</b> <i>Mérigaud, Alexis</i>	<b>On direct measurements of growth rates of fetch-limited young wind waves</b> <i>Shemer, Lev</i>	<b>Perfect Resonant Absorption of Guided Water Waves by Autler-Townes splitting</b> <i>Euvé, Léo-Paul</i>	<b>Radar-based sea surface waves measurements for real-time forecasting</b> <i>Barthélémy, Rollon</i>	<b>Resonant shallow water waves in circular channels</b> <i>Schön, Franz-Theo</i>
<b>A21_02</b> (S02)  <b>Sergio Pirozzoli</b>	<b>The experimental investigation of passive scalar mixing in turbulent pipe flow (YSA)</b> <i>Li, Huixin</i>	<b>The influence of the vorticity-scalar correlation on mixing in two dimensions (YSA)</b> <i>Yin, Xi-Yuan</i>	<b>Turbulent mixing in the magnetic Rayleigh-Taylor instability (YSA)</b> <i>Briard, Antoine</i>	<b>Mixing by breaking of internal wave modes</b> <i>Deleuze, Julie</i>	<b>Near-wall structure of vorticity-temperature correlation in wall-bounded turbulence</b> <i>Hara, Shumpei</i>	<b>Numerical and experimental characterization of a cylindrical supersonic air ejector</b> <i>Debroyer, Romain</i>	<b>Optimal Mixing in Active Nematic Flows</b> <i>Smith, Spencer</i>	<b>Role of molecular diffusion on pair dispersion in turbulent flows</b> <i>He, Jianxun</i>
<b>MS01_02</b> (H05)  <b>Ricardo Vinuesa</b>	<b>Reinforcement-learning-driven active control for drag reduction in wall-bounded turbulence at high Reynolds numbers</b> <i>Zhou, Zisong</i>	<b>Reinforcement twinning algorithms for dynamic propeller control</b> <i>Antonissen, Ruben</i>	<b>Real time data assimilation for the digital twinning of wind farms</b> <i>Randino, Sebastian</i>	<b>Physics-informed neural networks for the prediction of hidden fluid mechanics in droplet impingement</b> <i>Stroh, Alexander</i>	<b>Optimum control strategies for maximum thrust production in underwater undulatory swimming</b> <i>Argentina, Médéric</i>	<b>Multi-fidelity Reinforcement Learning optimization of coiled chemical reactors</b> <i>Shams, Mosayeb</i>	<b>Learning spatiotemporal wall-shear stress dynamics from outer-layer velocity fields in turbulent wall-bounded flows</b> <i>Lagemann, Esther</i>	<b>Physics-Informed Neural Network Framework for Solving Aeroelastic Fluid-Structure Coupling Problems</b> <i>Zhou, Hongjie</i>



	17:00	17:15	17:30	17:45
<b>A01_04</b> (H01)  Kerstin Avila	<b>Cavity stretching caused by deformed droplets impacting a Pool</b> <i>Dighe, Sandip Laxman</i>	<b>Droplets and sugar cloud</b> <i>Dorbolo, Stéphane</i>	<b>The simultaneous effects of imbibition and adsorption on the deposition from an evaporating droplet on a porous substrate (YSA)</b> <i>Craig, David</i>	<b>Underlying fluid dynamics in laser-driven liquid sheet expansion (YSA)</b> <i>Kharbedia, Mikheil</i>
<b>A02_04</b> (H02)  Angela Busse	<b>Nonlinear dynamics of steady oblique rolls in rotating magnetoconvection (YSA)</b> <i>Sharma, Lekha</i>	<b>Onset of absolute instability on a pitching airfoil using the Optimally Time-Dependent modes (YSA)</b> <i>Kern, J. Simon</i>	<b>Guessing and gluing long periodic orbits in hyperchaos</b> <i>Beck, Pierre</i>	
<b>A03_03</b> (H04)  Christoph Bruecker	<b>The taxonomy of Rayleigh-Bénard-Poiseuille flows (YSA)</b> <i>Chan, Chi Hin</i>	<b>Turbulent super-structures in liquid metal Rayleigh-Bénard convection (YSA)</b> <i>Su, Sylvie</i>	<b>Controlling pattern formation in convection via natural thermal boundary conditions</b> <i>Vieweg, Philipp Patrick</i>	<b>Convection in the active layer speeds up permafrost thaw</b> <i>Boffetta, Guido</i>
<b>A04_04</b> (H06)  Cristian Marchioli	<b>Barchans interacting with dune-size obstacles</b> <i>da Silva Borges, Danilo</i>	<b>Drag reduction in the side-by-side motion of intruders in a granular medium</b> <i>Carvalho, Douglas</i>	<b>Disentangling inertial and gravitational effects on settling of particles in turbulent flows</b> <i>Cabrera-Booman, Facundo</i>	<b>Dynamic Behaviour of Fibre-Laden Drops</b> <i>Radhakrishnakumar, Subhadrakutty</i>
<b>A07_02</b> (H03)  Markus Rütten	<b>Unsteady Response of a Turbulent Boundary Layer Interacting with Propeller-Slipstream Vorticity (YSA)</b> <i>Sequeira, Aaron D.</i>	<b>Induced drag high-aspect-ratio wings with structural constraints</b> <i>van Garrel, Arne</i>	<b>Methods for vortex structures identification and pitching moment prediction on delta wing in surface pressure information using point-vortex theory</b> <i>Guo, Jianglong</i>	
<b>A10_03</b> (H07)  Shervin Bagheri	<b>Dynamics of two non miscible fluids inside a rotating cylinder (YSA)</b> <i>Gormit, Lyes</i>	<b>Evolution of Dispersed Liquid-Liquid Pipe Flows: Experimental Investigations and Model Development</b> <i>Anastasiou, Charitos</i>	<b>Experimental Investigation of Buoyancy-Driven Spheres</b> <i>Ben Harush, Aviel</i>	
<b>A11_03</b> (H09)  Bettina Frohnäpfel	<b>Turbulence control on plane Couette flow using reduced-order models (YSA)</b> <i>Maia, Igor</i>	<b>Mechanisms for generating streaks and hairpin vortices in laminar boundary layer flow over a single dimple recessed in a flat plate</b> <i>Zhu, Jianxun</i>	<b>Active drag reduction of a sphere using smart morphable surface</b> <i>Sareen, Anchal</i>	

	17:00	17:15	17:30	17:45
<b>A12_02</b> (S04)  Julia Kowalski	<b>Freely Decaying Saffman Turbulence Experimentally Generated by Magnetic Stirrers</b> <i>Gorce, Jean-Baptiste</i>	<b>Generalized circulation area law in two-dimensional instability-driven turbulence</b> <i>Xie, Jin-Han</i>	<b>Geometry of the density field in super-sonic isothermal turbulence</b> <i>Thiesset, Fabien</i>	<b>Predictability of Lagrangian transport properties in a model of ageostrophic surface ocean turbulence</b> <i>Berti, Stefano</i>
<b>A13_02</b> (S06)  Fernando Pinho	<b>Solidification of a gravity-stretched liquid jet (YSA)</b> <i>Smink, Jan Siemen</i>	<b>Unsteady dissipation scaling in the wake of a slender body. (YSA)</b> <i>Kewalramani, Gagan</i>	<b>Coherent structures in under-expanded hydrogen jet</b> <i>Giannotta, Alessandro</i>	<b>Detachment of a concentrated suspension drop</b> <i>Urta, Hector</i>
<b>A14_02</b> (H11)  Jörg Schumacher	<b>Enstrophy variation caused by vortex collapse on inviscid flows</b> <i>Gotoda, Takeshi</i>	<b>Experimental and Numerical Investigation of the Turbulent Secondary Vortex Street</b> <i>Bekoglu, Elif</i>	<b>Instability of helical vortices with swirl</b> <i>Delbende, Ivan</i>	<b>How Navier-Stokes circumvents helical obstacles to get finite dissipation</b> <i>Kerr, Robert M.</i>
<b>A15_03</b> (S03)  Gareth McKinley	<b>Instability of Marangoni Interfacial Flow Induced by Transverse Solute Transfer</b> <i>Tan, Huanshu</i>	<b>Laser-induced thermocapillary flows on a flowing soap film</b> <i>Zhao, Yu</i>	<b>Late-time impact of micro-metre droplets on a hydrophilic surface</b> <i>Offner, Avshalom</i>	<b>Marangoni bursting of polymeric liquids</b> <i>Sen, Uddalok</i>
<b>A18_03</b> (H08)  Alfredo Soldati	<b>Dispersion of bubbles in an initially quiescent liquid</b> <i>Ma, Tian</i>	<b>Small inertial particles in wall turbulence must lift correctly</b> <i>Costa, Pedro</i>	<b>Spectral analysis of a forced turbulent bubbly flow</b> <i>Burlot, Alan</i>	<b>Spray formation mechanisms from moderate to high gas Weber numbers probed by visible light and Synchrotron X-ray high-speed imaging</b> <i>Machicoane, Nathanaël</i>
<b>A20_03</b> (H10)  Frédéric Dias	<b>Synchronous PIV and schlieren measurements of resonant nonlinear internal standing waves</b> <i>Kalenko, Sabrina</i>	<b>Transient shear wave propagation in a solid-liquid coupled system</b> <i>D'Cruz, Aaron</i>	<b>Wind waves evolution in presence of current under impulsive wind forcing</b> <i>Kumar, Krishanu</i>	
<b>A21_03</b> (S02)  Sergio Pirozzoli	<b>Wall mass transfer enhanced by acoustic streaming.</b> <i>Botton, Valéry</i>	<b>Diffusion of turbulence in a stratified environment</b> <i>Iovieno, Michele</i>		

<b>MS01_03</b> (H05)  Ricardo Vinuesa	<b>17:00</b> <b>Laboratory tool for spatio-temporal measurements of waves and slopes based on polarimetric sensing and Machine Learning</b> <i>Ginio, Noam</i>	<b>17:15</b> <b>Invariance-based Learning of Latent Dynamics in Fluid Flows</b> <i>Lagemann, Christian</i>	<b>17:30</b> <b>Can autoencoders derive airfoil theory?</b> <i>Tognaccini, Renato</i>	<b>17:45</b> <b>Consistent Turbulence Modeling via Reinforcement Learning</b> <i>Kurz, Marius</i>

# Wednesday, September 18

<b>PS03</b> (H01)  Roberto Verzicco	<b>08:30</b> <b>Self-regulating non-equilibrium: turbulence dissipation and transfers</b> <i>Vassilicos, John Christos</i>

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A01_05</b> (H01)  Benoit Scheid	<b>Dynamics of drying particle-laden droplets on soft viscoelastic substrates</b> <i>Malachtari, Anna</i>	<b>Entry effects of downward Taylor bubble in a milli-channel with constriction</b> <i>Maestri, Rhandrey</i>	<b>Evaporation of acoustically levitated bicomponent droplets</b> <i>Wakata, Yuki</i>	<b>Evaporation of micro and nano droplets</b> <i>Caciolla, Leonardo</i>	<b>Evaporation-driven buckling of a suspension drop containing graphene oxide nanoplatelets</b> <i>Prakash, Suriya</i>	<b>Experimental and numerical investigation of secondary bubble entrapment</b> <i>Naidu S, Raghavendra</i>	<b>Experimental and numerical study of liquid-liquid flow in a mixer-settler at moderate Reynolds numbers</b> <i>HARDY, Antoine</i>	<b>Experiments and modelling of droplets motion induced by turbulent air flow on inclined surfaces</b> <i>Yurishchev, Alexander</i>
<b>A02_05</b> (H02)  Christoph Egbers	<b>Interface stability of flows in porous media and its applications</b> <i>Le, Thi Thai</i>	<b>Linear and non-linear aerodynamic Bloch waves in periodic arrays of cylinders.</b> <i>Marquet, Olivier</i>	<b>Linear inception of patterns from turbulence in plane channel flow</b> <i>Ciola, Nicola</i>	<b>Linear stability of a falling film down a heated moving plate</b> <i>Choudhury, Arnab</i>	<b>Meshless - linear stability analysis for computations of flow instabilities in Couette flow within elliptical enclosure</b> <i>Unnikrishnan, Akash</i>	<b>On the role of eddy viscosity in resolvent analysis of turbulent jets</b> <i>von Saldern, Jakob G.R.</i>	<b>New 3D Oblique Modes - Extension of Squire's Theorem for Spatial Instabilities</b> <i>Wilhelm, Kilian</i>	<b>DNS of K-type transition in a flat-plate boundary layer with supercritical fluid (YSA)</b> <i>Boldini, Pietro Carlo</i>

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A03_04</b> (H04)  Rudie Kun- nen	<b>Coriolis-centrifugal convection with non-isothermal top and bottom boundaries</b> <i>Bloomer, Will</i>	<b>Critical Prandtl number for Heat Transfer Enhancement in Rotating Convection</b> <i>Anas, Mohammad</i>	<b>Double diffusive convection in the diffusive regime with a uniform background shear</b> <i>Yang, Yantao</i>	<b>Effect of radius ratio on the sheared annular centrifugal turbulent convection</b> <i>Zhong, Jun</i>	<b>Enhancing Fluid/Solid Phase Change by Inclination</b> <i>Yang, Rui</i>	<b>Experimental and numerical study of the interaction between forced and natural convection in a thin cylindrical fluid layer at low Prandtl number</b> <i>Le Bars, Michael</i>	<b>Experimental Study of Ocean-Driven Ice-Shelf Melting</b> <i>Collin, Brivaël</i>	<b>Heat-flux Fluctuations reveals regime transitions in Rayleigh-Bénard convection</b> <i>Chibbaro, Sergio</i>
<b>A07_03</b> (H03)  Deepak Prem Ra- maswamy	<b>Numerical study of aerodynamic performance of damaged dragonfly wings (YSA)</b> <i>Yu, Peng</i>	<b>Characterising the Interplay between the TNTI and the Entrainment and Detrainment Behaviour of a Turbulent Boundary Layer (YSA)</b> <i>Parikh, Agastya</i>	<b>Wave-turbulence interaction in the aqueous boundary layer</b> <i>Bullee, Pim Adriaan</i>	<b>Uniform momentum zones in the turbulent boundary layer over superhydrophobic surface</b> <i>Cheng, Xiaoqi</i>	<b>The Batchelor sleeve problem, from low to high Reynolds number</b> <i>Moffatt, Henry Keith</i>	<b>Statistics of a turbulent boundary layer with polymer solution ejection at low and high drag reduction states</b> <i>Ma, Jia-Qi</i>	<b>The electrodiffusional theory for the two-segment measuring probes (YSA)</b> <i>Harrandt, Vaclav</i>	
<b>A09_02</b> (H05)  Wilfried Coenen	<b>Effect of elevated and reduced cardiac output levels on the turbulent flow field behind mechanical and biological aortic valve prostheses</b> <i>Ferrari, Lorenzo</i>	<b>Effect of Hemodynamics on the Arteriolar Tissue Dilation</b> <i>Marousis, Antonis</i>	<b>Effective timing between arterial pulsations and transmural pressure fluctuations may explain bulk glymphatic flow through periarterial spaces</b> <i>Coenen, Wilfried</i>	<b>Effects of buoyancy on the dispersion of drugs released intrathecally in the spinal canal</b> <i>Sánchez, Antonio L</i>	<b>Fast actuation of the Mimosa pudica plant: an osmotic muscle?</b> <i>Forterre, Yoël</i>	<b>Flow induced in a cavity by an oscillatory channel flow separated by a flexible wall</b> <i>Bárcenas-Luque, Antonio José</i>	<b>Fluid mechanics of fascial sheath blocks for regional anesthesia</b> <i>Obrist, Dominik</i>	<b>High-resolution flow field investigations in membrane lungs, considering the complex blood rheology</b> <i>Kranz, Michael</i>
<b>A14_03</b> (H11)  Anne-Marie Schreyer	<b>Investigating extreme-event morphology and correlation with large-scale bifurcations using enstrophy conditioned statistics</b> <i>Musci, Benjamin</i>	<b>Low Reynolds number dynamics of a wing tip vortex under varied free stream turbulence</b> <i>Benlarbi, Mael</i>	<b>Low-dimensional modeling of turbulent superstructures in Kolmogorov flow</b> <i>Álvarez-Garrido, Fabián</i>	<b>Mechanisms of the Energy Transfer in Atmospheric Vortex Rings</b> <i>Jędrejko, Paweł Elias</i>	<b>Numerical investigation on wave and vortex structures in a three-dimensional spatially-developing compressible mixing layer</b> <i>Chen, Junlin</i>	<b>The Impact of Centerline Separation on Compressible Bluff Body Wake Dynamics</b> <i>Huss, Rhylan</i>	<b>Transitional and turbulent flow around convex curved cylinders in tandem</b> <i>Aasland, Take Egeberg</i>	

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A15_04</b> (H09)  Katrin Bauer	<b>Marangoni wakes in a viscous fluid</b> <i>Bickel, Thomas</i>	<b>Orbiting droplets on a soap film</b> <i>Reichert, Benjamin</i>	<b>Oscillating Contact Lines</b> <i>Bintein, Pierre-Brice</i>	<b>Puffing Water Bells Generated by Liquid Jet Impingement on a Vial: A Novel Experimental Approach</b> <i>Mohd, Javed</i>	<b>Radiation Pressure of Capillary Waves Makes for Effective Surface Tension</b> <i>Bisswanger, Steffen</i>	<b>Surface-tension effects on gas bubbles rising in a vertical ethanol-jet in a water column</b> <i>Baier, Tobias</i>	<b>Surfactant exchanges between deformed soap films</b> <i>Lenavetier, Théo</i>	
<b>A16_02</b> (S04)  Andrea Mazzino	<b>Effects of Viscoelasticity on the Behaviour and Deformation of Compound Droplets in Extensional flow</b> <i>Vyas, Malay</i>	<b>Electrophoretic trajectory of a non-uniformly charged particle suspended in a viscoelastic fluid in the presence of a background linear flow</b> <i>Borthakur, Rajnandan</i>	<b>Fickian yet non Gaussian diffusion and Generalized Stokes-Einstein relations: hydromechanics and renormalization group approaches</b> <i>Pezzotti, Chiara</i>	<b>Interplay between complex fluid rheology and wall compliance affects the hydrodynamic resistance of deformable configurations</b> <i>Boyko, Evgeniy</i>	<b>Local stress measurements in the elastoplastic regime of a flowing sheared foam</b> <i>Dollet, Benjamin</i>	<b>Suspensions of fibers in shear-thinning fluids</b> <i>Li, Yansong</i>		
<b>A17_02</b> (S01)  Miguel David Bustamante	<b>Identification of the turbulent field structure at multi-scale levels</b> <i>Wang, Lipo</i>	<b>Lagrangian Turbulence Modeling from Multifractal Dissipation and Bounded Velocity Gradients</b> <i>Moriconi, Luca</i>	<b>Large-scale coherent structures in the turbulent wake</b> <i>Steiros, Konstantinos</i>	<b>Large-scale, double-precision direct numerical simulations of incompressible turbulence on Fugaku</b> <i>Ishihara, Takashi</i>	<b>Life time of the intense vorticity structures in isotropic turbulence</b> <i>Ghira, Afonso</i>	<b>Maximum Entropy Principle Leads to Lognormal Turbulence Energy Spectra</b> <i>Lee, T.-W.</i>	<b>Non-equilibrium effects in two dimensional turbulence</b> <i>Musacchio, Stefano</i>	
<b>A24_01</b> (S03)  Joachim Peinke	<b>Effect of Stratocumulus Clouds on the Earth's Boundary layer (YSA)</b> <i>Selvatici, Davide</i>	<b>Atmospheric boundary layer study utilizing large eddy simulations with the spectral element codes Nek5000 &amp; NekRS</b> <i>Kavroulakis, Ioannis</i>	<b>Experimental investigation of indoor-outdoor pollutant exchange through cross-ventilation of a hollow cube in an atmospheric boundary layer</b> <i>Biswas, Subhajit</i>	<b>Insights into Warm Rain Dynamics via a Simplified Model</b> <i>Kapon, Shai</i>	<b>Scaling and similarity in LES of the equilibrium stable boundary layer with subsidence</b> <i>Bon, Thijs</i>	<b>Lagrangian dispersion in the Atmospheric Boundary Layer: Results from the IMPACT campaign (YSA)</b> <i>Falkinhoff, Florencia</i>	<b>A statistical description of atmospheric turbulence</b> <i>Köhne, Finn</i>	<b>Convergence of velocity increment PDF in LES with turbulent inflow</b> <i>Bock, Marcel</i>

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A25_01</b> (S02)  <b>Filippo Coletti</b>	<b>Direct numerical simulation of non-breaking waves propagating over a shallow wavy bottom: mass and momentum transport in actual turbulent wave flow</b> <i>Mazzuoli, Marco</i>	<b>Resource-aware Benchmarking of Free Surface Flow Simulations</b> <i>Correa, Alan</i>	<b>A variational-based analysis of the flow structure and stability of bilayer film and Couette flow over patterned substrate</b> <i>Scholle, Markus</i>	<b>Analogue Gravity in Interfacial Hydrodynamics: Flows classification in open water channels inspired by the navigation in confined media and black hole Physics.</b> <i>Rousseaux, Germain</i>	<b>Disordered gravity-driven film flow over periodic ripples</b> <i>Wierschem, Andreas</i>	<b>Experimental study of hysteresis in a partially-filled horizontally rotating cylinder</b> <i>MARTIN WITKOWSKI, Laurent</i>	<b>Experimental study of shallow water free-surface jets with Coanda effect</b> <i>Sollevanti, Matteo</i>	<b>Dynamics of non-linear air-blown waves on viscous liquid film flows</b> <i>Meng, Yanghan</i>
<b>A27_01</b> (S05)  <b>Marten Klein</b>	<b>Development of a conservative finite difference solver for magnetoconvection and plane layer dynamos</b> <i>Bader, Shujaut H.</i>	<b>Investigating the Taylor Instability in a Liquid Metal Experiment</b> <i>Bermudez, Guillaume</i>	<b>Liquid metal slug driven by a rotating magnetic field</b> <i>Moon, Jihoo</i>	<b>Optimal transient growth in the MHD pipe flow subject to a transverse magnetic field</b> <i>Velizhanina, Yelyzaveta</i>	<b>Oscillating diffusive or propagative dynamics? Conditions for the emergence of MHD waves at low Rm</b> <i>Lalloz, Samy</i>	<b>The stability of magnetohydrodynamic flows in cylindrical geometries using a velocity-vorticity formulation</b> <i>Knaepen, Bernard</i>	<b>Thermoelectromagnetic pumping of a two liquid metals system (YSA)</b> <i>Vernet, Marlone</i>	<b>Towards invariant solutions of rotating magneto-hydrodynamics in a channel geometry</b> <i>Ringebach, Jean-Clément</i>
<b>A28_01</b> (S06)  <b>Christian Lagemann</b>	<b>Drying and impurity deposition in porous materials</b> <i>Luckins, Ellen</i>	<b>Influence of porous flow on dip coating of a rough surface (YSA)</b> <i>Molefe, Lebo</i>	<b>Effective boundary condition for the fluid flow through a domain with porous wall</b> <i>Pažanin, Igor</i>	<b>Numerical modeling of vapor condensation in fractured porous media based on in-situ rapid neutron tomography</b> <i>Nemati, Arash</i>	<b>Convective instabilities in vertical porous media</b> <i>Pramanik, Satyajit</i>	<b>Fines transport in a porous coffee bed</b> <i>Rauchenzauner, Stefanie</i>	<b>Network modeling of porous media transport</b> <i>Kondic, Lou</i>	
<b>MS01_04</b> (H06)  <b>Michele Buzzicotti</b>	<b>Group invariant convolutional neural networks-based deep reinforcement learning for effective flow control</b> <i>Jeon, Joongoo</i>	<b>Geometry-informed Deep Learning approach for predicting fluid flow in reactors</b> <i>Basha, Nausheen</i>	<b>Flow field and body shape reconstruction for compressible flows using ODIL &amp; JAX-Fluids</b> <i>Bezgin, Deniz</i>	<b>Extracting similarity from data</b> <i>Bempedelis, Nikos</i>	<b>Explainable deep learning to identify coherent structures in turbulence</b> <i>Vinuesa, Ricardo</i>			

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>MS04_01</b> (H10)  Alexander Morozov	<b>Keynote: Elastic turbulence in homogeneous and shear flows (YSA)</b> <i>Rosti, Marco Edoardo</i>		<b>Orientational order and topological defects in a dilute solutions of rodlike polymers at low Reynolds number</b> <i>Puggioni, Leonardo</i>	<b>Mixing of passive scalars in turbulent viscoelastic jets and wakes studied by DNS</b> <i>Guimarães, Mateus C.</i>	<b>Influence of the Peclet number on the dynamics of simulated elastic turbulence and elasto inertial turbulence</b> <i>Terrapon, Vincent E</i>	<b>From elasto-inertial to elastic turbulence in curved pipes</b> <i>Lu, Ziyin</i>	<b>Experimental observation of the sheet-like structure and elastic wave in high Reynolds number polymeric turbulence</b> <i>Xi, Heng-Dong</i>	<b>Elasto-Inertial Turbulence and the Maximum drag reduction asymptote</b> <i>Suresh, Sarath Sankar</i>

	13:00
<b>PS04</b> (H01)  Wolfgang Schröder	<b>Sound, flames and aerodynamics for a decarbonised future</b> <i>Morgans, Aimee S.</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A01_06</b> (H01)  Dominik Krug	<b>Formation of a droplet capsule through interactions between an air bubble and a cavitation bubble</b> <i>Cui, Jiajun</i>	<b>Formation of homogeneous and uniform film by coalescence of drops</b> <i>Bouvier, Antoine</i>	<b>Influence of contact angle on the rebound of drops impacting hydrophobic surfaces</b> <i>Esteban, Adolfo</i>	<b>Jetting and singularity dynamics of ultrasound-driven microbubbles near a substrate</b> <i>Cattaneo, Marco</i>	<b>Morphological transition of freezing drops impacting a liquid bath</b> <i>Berry, Marion</i>	<b>Droplet impact on textiles with real-time controlled wettability</b> <i>Ioannou, Georgia</i>	<b>Ultrasound-driven microbubble jetting near a wall</b> <i>Supponen, Outi</i>	<b>Numerical studies of turbulent amplification during shock-bubble interaction-VGT analysis</b> <i>Roy, Arnab</i>
<b>A02_06</b> (H02)  Jean-Christophe ROBINET	<b>Noise-induced transitions after a steady symmetry-breaking bifurcation: the case of the sudden expansion</b> <i>Ducimetière, Yves-Marie</i>	<b>Numerical investigation of Richtmyer-Meshkov instability in shocked fluid layer with particles</b> <i>LI, LINFEI</i>	<b>Numerical Study of Slip Effects on Supersonic Boundary-Layer Receptivity to Freestream Acoustic Disturbances</b> <i>Wang, Chenyue</i>	<b>On linear stability of planar compression ramp flows</b> <i>Theofilis, Vassilis</i>	<b>Onset of Turbulence in Pulsatile Pipe Flow with a Physiological Waveform</b> <i>Bäuerlein, Bastian</i>	<b>Prediction of linear spatial non-modal growth with bi-orthogonal local analysis</b> <i>Ohno, Duncan Marius</i>	<b>Primary Instability in the Wake of Polygonal Cylinders</b> <i>Marshall, Adam</i>	<b>Proliferation of localized turbulence in pipe flow</b> <i>Svirsky, Anton</i>



	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A03_05</b> (H04)  Juan Pedro Mellado	<b>Experimental study of the energy dissipation rate and small-scale properties of turbulent thermal convection with polymer additives</b> <i>Xia, Ke-Qing</i>	<b>Flow Organization and its Influence on the Heat flux in Turbulent Rayleigh-Benard Convection</b> <i>Bodenschatz, Eberhard</i>	<b>Ultimate Rayleigh-Bénard turbulence</b> <i>Lohse, Detlef</i>	<b>Heat transfer in geostrophic convection: the role of the Prandtl number</b> <i>Kunnen, Rudie</i>	<b>Large-scale properties of reactive Rayleigh-Taylor turbulence</b> <i>Ley, Kevin</i>	<b>Lateral mixing at river confluences affected by buoyancy effects</b> <i>Gostiaux, Louis</i>	<b>Mapping the transport enhancements in highly turbulent Rayleigh-Bénard convection due to non-Oberbeck-Boussinesq effects</b> <i>Macek, Michal</i>	<b>Measurement of thermal structures in a turbulent Rayleigh-Benard system of large aspect ratio using luminophores</b> <i>Weiss, Stephan</i>
<b>A05_02</b> (H08)  Mathis Bode	<b>A compact model for district-heating networks with dynamic operating conditions</b> <i>Speetjens, Michel</i>	<b>A Novel Computational Framework for the Analysis of Incompressible Two-Way Coupled Fluid Structure Interaction</b> <i>Feldmann, Yuri</i>	<b>An efficient immersed boundary method for particle-resolved simulations of neutrally-buoyant particles of arbitrary shape</b> <i>Schenk, Maximilian</i>	<b>Application of a domain decomposition method in the direct numerical simulation of thermal convection with boiling</b> <i>Li, Hongru</i>	<b>Applying generalized tangent vectors to steady-state solutions to the Euler equations</b> <i>Bauer, Gidon</i>	<b>Can we leapfrog the NSE solver a hundred fold? An early assessment of the very high order Multi-Moment Method</b> <i>Hokpunna, Arpiruk</i>		
<b>A06_03</b> (H07)  Matthias Heil	<b>2DoF galloping of a 3D bluff body pendulum</b> <i>Myskiw, Antoine</i>	<b>A computational method for the fluid-structure interaction using the nonlinear Schrödinger equation</b> <i>Hollm, Marten</i>	<b>A detailed multi-physics model for jellyfish locomotion</b> <i>de Tullio, Marco D.</i>	<b>A Fluid-Structure Interaction framework for particle transport applications in inertial microfluidics</b> <i>De Marinis, Dario</i>	<b>Aeroelastic instabilities of a flexible surface impacted by impinging air jets</b> <i>Tatin, Antoine</i>	<b>Analysis of fully resolved non-spherical particles in a turbulent free jet</b> <i>Kiwitt, Thede</i>	<b>Autonomous fluid transport in actively contracting channel controlled by pressure sensing</b> <i>Ahmad, Faisal</i>	<b>Collapse of entrapped vapour pocket during disc impact on boiling liquid</b> <i>Fan, Yee Li Ellis</i>
<b>A07_04</b> (H03)  Deepak Prem Ramaswamy	<b>A foil oscillating in the Karman street: the legacy of three scientific schools</b> <i>Zilman, Gregory</i>	<b>A Variational Theory of Aerodynamics</b> <i>Taha, Haithem</i>	<b>Buzz control on an Intake using Vortex Generators at Mach 3.0</b> <i>Chidambaranathan, Manisankar</i>	<b>Behavior of Generalized K-Omega (GEKO) Parameter on Performance Prediction of Airfoils Operating in Incompressible Region</b> <i>Santironnarong, Siraphob</i>	<b>Application and practical guidelines of dynamic mode decomposition (DMD)-based Koopman analysis in bluff-body aerodynamics</b> <i>Peng, Daniel Ziyue</i>	<b>Experimental and numerical analysis of aerodynamic forces and wake structure on a 2D model of a vehicle in ground effect</b> <i>Durán, Eduardo</i>		

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A08_02</b> (H09)  Julio So- ria	<b>Evaluation of hot-wire measurement accuracy in turbulent boundary layers under strong adverse pressure gradient conditions</b> <i>Romańczyk, Mathias</i>	<b>Turbulent flow across axisymmetric expansion in round pipes</b> <i>Jose, Jibu Tom</i>	<b>LES and RANS simulations of non-isothermal flows in corrugated channels</b> <i>Montiel, Nicolas</i>	<b>Local-energy-flux vectors in uniform and banded turbulence for model Waleffe flow</b> <i>TAKAOKA, Masanori</i>	<b>Transition to the ultimate regime in axially grooved Taylor-Couette turbulence</b> <i>Suga, Kazuhiko</i>	<b>Uniform Momentum Zones in Accelerating Turbulent Pipe Flow.</b> <i>Gunaratne, Isuru Chinthana</i>	<b>Numerical study of the flow in cylindrical sonic nozzles by means of two RANS turbulence models</b> <i>Weiss, Sebastian</i>	
<b>A09_03</b> (H05)  Lars Krenkel	<b>Fluid-Structure-Electrophysiology Interaction in the left heart: exploring turbulent flow dynamics for data-driven applications</b> <i>Guglietta, Fabio</i>	<b>How do polymeric aortic valves perform? A computational study of blood-structure dynamics under various material and geometrical conditions</b> <i>Corso, Pascal</i>	<b>Influence of controlled breathing patterns on CSF flow dynamics in the spinal canal</b> <i>Rubio-Rubio, Mariano</i>	<b>Lattice Boltzmann simulations of radioembolization in an idealized liver vasculature</b> <i>Vlogman, Tristan</i>	<b>Lymphatic vascular system: distributed leaflets optimize transport</b> <i>Brandenbourger, Martin</i>	<b>Marangoni-like cellular flows enhance symmetry breaking of embryonic organoids</b> <i>Gsell, Simon</i>	<b>Measurement on 3D-WSS and pressure fields in a laminar pipe flow using scanning-stereoscopic PIV</b> <i>Iwata, Daisuke</i>	<b>Measurements of Aerosol Generation in the Lower Respiratory System</b> <i>Michel, Johanna</i>
<b>A12_03</b> (S04)  Uwe Harlander	<b>In-situ measurements in shallow cumulus clouds: first results from the Max Planck CloudKite</b> <i>Bagheri, Ghulamhossein</i>	<b>Instabilities around a Spheroid Spinning in a Rotating Stratified Fluid</b> <i>Chauchat, Antoine</i>	<b>Langmuir Super-cell genesis in the coastal ocean: impacts of longitudinal alignment between wind, wave, and current</b> <i>Chen, Bicheng</i>	<b>Numerical simulations of a dilute particle suspension settling through a density interface</b> <i>Abdal, Abdullah M.</i>	<b>Oscillatory thermal-inertial layer formation in the molecular envelopes of gas giants</b> <i>Horn, Susanne</i>	<b>Radiantly driven convective regimes in ice-covered waters</b> <i>Estay, Gustavo</i>	<b>Real-time tracking of lab-scale iceberg melting in stratified systems</b> <i>Noto, Daisuke</i>	
<b>A13_03</b> (S06)  Esther Lagemann	<b>Dynamics of the flow produced by a liquid oscillator discharging in still air</b> <i>Ansari Shirvan, Neda</i>	<b>Effect of the free stream turbulence on the ellipsoid wake</b> <i>Kommineni, Chandra Sekhar</i>	<b>Effects of inlet conditions and nozzle-to-plate distance on flow and heat transfer of an impinging jet</b> <i>Camerlengo, Gabriele</i>	<b>Experimental Study on 3D Turbulent Mixing layers</b> <i>Gupta, Dipendra</i>	<b>Velocity scalings for acoustic streaming jets in a long cavity</b> <i>Miralles, Sophie</i>	<b>Turbulent/non-turbulent interface characteristics in equilibrium and non-equilibrium turbulence</b> <i>Zecchetto, Marco</i>	<b>Turbulence behind a realistic open-cell metal foam</b> <i>Corsini, Roberto</i>	<b>Velocity statistics of air curtain flows using large-eddy simulation</b> <i>Agrawal, Tanmay</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A14_04</b> (H11)  <b>Jörg Schumacher</b>	<b>Numerical Simulation of the Interaction between Longitudinal Vortices and an Oblique Shock Wave</b> <i>Werner, Michael</i>	<b>On the effect of the axial flow on the frequency response of a Batchelor vortex</b> <i>Blanco-Rodríguez, Francisco J.</i>	<b>Singularity in an axisymmetric stagnation-point-type flow bounded by a cylinder</b> <i>Xu, Yinshen</i>	<b>Slat cove dynamics of multi-element airfoil: Effects of gap size between the slat and the main element</b> <i>Wang, Jiangsheng</i>	<b>Statistical mechanics applied to turbulence without vortex stretching</b> <i>Wu, Tong</i>	<b>Tip vortex evolution under sheared inflow conditions in the context of wind turbines</b> <i>Grunwald, Mano</i>	<b>Transient control of swirling momentum in experimentally generated vortex rings</b> <i>Ortega-Chavez, Rigoberto</i>	
<b>A17_03</b> (S01)  <b>Alain Pumir</b>	<b>On the exact laws for energy transfer in simple and active binary fluid turbulence</b> <i>Pan, Nandita</i>	<b>Searching for hidden symmetry in passive scalar advected by 2D Navier-Stokes turbulence</b> <i>Calascibetta, Chiara</i>	<b>Spectrum correction in 2D Ekman-Navier-Stokes turbulence</b> <i>Valadão, Victor de Jesus</i>	<b>The dissipation constant <math>C_\epsilon</math> determines equilibrium and non-equilibrium in turbulence</b> <i>Bos, Wouter</i>	<b>The Kolmogorov Refined Similarity Hypothesis in polymeric turbulence</b> <i>Chiarini, Alessandro</i>	<b>The relation between the dissipation constant and the intermittency constant</b> <i>Schmitt, Felix</i>	<b>Unraveling Intermittency: A Comprehensive Analysis through Low-Order Parameters, Characterization, and Quantification of Flow Dynamics</b> <i>Issa, Sally</i>	
<b>A31_01</b> (S02)  <b>Aimee Morgans</b>	<b>Shock-induced hydrogen supersonic ignition</b> <i>De Vita, Francesco</i>	<b>Analysis of heat-up, devolatilization, and ignition of coal particles using point-particle DNS</b> <i>Heinzer, Heinz Heinrich</i>	<b>Analysis of turbulent pulverized biomass jet flames using direct numerical simulations: Impact of shear forces on the turbulence/chemistry coupling</b> <i>Farmand, Pooria</i>	<b>Development of a hybrid turbulence model for deflagration</b> <i>Trabichet, Dorian</i>	<b>Flashback in hydrogen-fueled perforated burners: exploring the impact of three-dimensional slit geometry</b> <i>Fruzza, Filippo</i>	<b>Role of Dilatation in the Injection and Transport of Turbulent Kinetic Energy in Premixed Reacting Flows</b> <i>Poludnenko, Alexei Y.</i>	<b>Turbulence statistics in high-resolution direct numerical simulations of compressible isothermal turbulence</b> <i>Sakurai, Yoshiki</i>	<b>Multiplicity of steady-state axisymmetric solutions for edge flames in circular channels.</b> <i>Kurdyumov, Vadim N.</i>
<b>MS01_05</b> (H06)  <b>Michele Bucciotti</b>	<b>Deep reinforcement learning for autonomous navigation in complex flows</b> <i>Mecanna, Selim</i>	<b>Deep Reinforcement Learning for Active Flow Control: Where we stand, and perspectives for the years to come</b> <i>Rabault, Jean</i>	<b>Deep learning-based reduced order model for three-dimensional unsteady flow with mesh transformation and stitching</b> <i>Gang, Chen</i>	<b>Data-driven correlations for thermohydraulic roughness properties</b> <i>Dalpke, Simon</i>	<b>Bayesian olfactory search in realistic turbulent flows</b> <i>Heinonen, Robin A.</i>	<b>Bayesian Approaches for Odor Source Localization in a Turbulent Environment</b> <i>Piro, Lorenzo</i>	<b>An LES Informed Augmented Turbulence Kinetic Energy Neural Network Model for Near-wall Jet Flows</b> <i>Ellis, Christopher David</i>	

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>MS04_02</b> (H10)  Alexander Morozov	<b>Keynote: Elastic turbulence in von Karman swirling flow of wormlike micelles</b> <i>Lerouge, Sandra</i>	<b>Elastic turbulence in planar channel flows</b> <i>Foggi Rota, Giulio</i>	<b>Elastic instability and transition to turbulence in viscoelastic Taylor-Couette flow</b> <i>LATRACHE, Noured-dine</i>	<b>Approaching the low inertia limit of elasto-inertial turbulence in pipe flow experiments</b> <i>kamil, shoaib</i>	<b>Subcritical transition to elastic turbulence in parallel shear flows: Recent progress</b> <i>Linkmann, Moritz</i>			

	17:00	17:15	17:30	17:45
<b>A01_07.1</b> (H01)  Dominik Krug	<b>Multiphase change dynamics of levitated droplet in acoustic levitation</b> <i>Hasegawa, Koji</i>	<b>Multi-scale analysis of drops in turbulence</b> <i>Roa, Ignacio</i>	<b>Non-monotonic surface tension leads to spontaneous symmetry breaking in a binary evaporating drop</b> <i>Diddens, Christian</i>	
<b>A01_07.2</b> (H02)  Jean-Christophe ROBINET	<b>Numerical study on the nonwetting ability of trapezoid topography</b> <i>YUAN, Zhicheng</i>	<b>On acoustic wave propagation in bubbly gelatin</b> <i>Nie, Mingyuan</i>	<b>Path of a deformable bubble rising near a vertical wall: highly inertial regimes</b> <i>Shi, Pengyu</i>	<b>Coalescence-driven detachment of sub-millimeter bubbles on solid surfaces – a numerical study</b> <i>Cattani, Michele</i>
<b>A03_06</b> (H04)  Juan Pedro Mellado	<b>Melting dynamics of floating ice cylinders</b> <i>Bellincioni, Edoardo</i>	<b>Melting of inclined ice blocks</b> <i>Ferreyra Hauchar, Tomás Joaquín</i>	<b>Numerical simulations for the AtmoFlow - Project</b> <i>Travnikov, Vadim</i>	<b>Oscillatory convection in a liquid metal layer tightly confined by lateral wall</b> <i>Tasaka, Yuji</i>
<b>A05_03</b> (H08)  Mathis Bode	<b>CFD modelling of thermal phase change in compressible two-phase flows with machine learning model for temperature prediction</b> <i>Mani Sakthi, Gokul Siddarth</i>	<b>DG-FEM for flows transitioning from Navier-Stokes to Darcy on domains with arbitrary time-dependent permeability</b> <i>Terschanski, Benjamin Leon</i>	<b>High-fidelity numerical simulations of high-speed single- and multi-phase flows with novel ROUND schemes on unstructured grids</b> <i>Deng, Xi</i>	<b>High-order methods for compressible multi-phase flow: a comparison of the level-set method and the high-resolution discrete-equations method</b> <i>Paula, Thomas</i>

	17:00	17:15	17:30	17:45
<b>A06_04</b> (H07)  Matthias Heil	<b>Comparing the 3D Wakes of Swimming Snakes</b> <i>Gregorio, Elizabeth</i>	<b>Fluid transport induced by non-reciprocal fluidic metamaterial</b> <i>Acharya, Kiran</i>	<b>Fluid-structure interaction of a laminar pulsatile flow in an elastic pipe</b> <i>Keuchel, Patrick</i>	<b>Fluid-structure interactions of a pendulum disk: autorotation and hysteresis</b> <i>BAO, Di</i>
<b>A08_03</b> (H09)  Julio So- ria	<b>Coherent structures responsible for aero-optic distortions in attached and detached flow simulations.</b> <i>Doria, Kévin</i>	<b>Conjugate heat transfer in turbulent liquid metal flows in pipes</b> <i>Neuhauser, Jonathan</i>	<b>Contribution of near-wall streaks to Reynolds stress components and budgets of turbulent kinetic energy</b> <i>Shahirpour, Amir</i>	<b>Direct numerical simulation of small-scale roughness in stably stratified turbulent Ekman flow</b> <i>Kostelecky, Jonathan</i>
<b>A09_04</b> (H05)  Lars Krenkel	<b>Noninvasive estimation of central blood pressure through fluid-structure interaction modeling</b> <i>Zhu, Chi</i>	<b>Nudging cardiovascular kinematics within fluid-structure interaction simulations of the left heart</b> <i>Scarpolini, Martino Andrea</i>	<b>On the Intra- and Supra-annular deployment of bioprosthetic aortic valves: a hemodynamic study</b> <i>Viola, Francesco</i>	<b>Microswimmer trapping in surface waves with shear</b> <i>De Lillo, Filippo</i>
<b>A12_04</b> (S04)  Uwe Harlander	<b>Helical Triad Phase Synchronisation in Extreme 3D Navier-Stokes Flows</b> <i>Bustamante, Miguel David</i>	<b>Triad phase dynamics determine flux in 2D turbulence</b> <i>Benavides, Santiago J.</i>	<b>Very low Ekman number turbulent rotating convection</b> <i>Knobloch, Edgar</i>	<b>An evaluation of inertial modes in the Sun with different models</b> <i>Zhu, Xiaojue</i>
<b>A18_04</b> (S01)  Alain Pumir	<b>Surface wave fluctuations under the influence of air-water freestream turbulence</b> <i>Li, Leon</i>	<b>Total and conditional scale-by-scale energy budget in turbulent multiphase flows</b> <i>Vahe, Jonathan</i>	<b>Turbulent natural convection in an air-water system with evaporation across the free surface</b> <i>Carlier, Julien</i>	<b>Population balance-based modelling of flocculation in isotropic turbulence: insights from DNS data analysis</b> <i>Vowinckel, Bernhard</i>
<b>A19_01</b> (H03)  Deepak Prem Ra- maswamy	<b>Incorporating high-speed velocity and temperature scalings in Reynolds-averaged Navier-Stokes models (YSA)</b> <i>Hu, Xiaohan</i>	<b>Blast wave attenuation in wire meshes: the dissipation mechanisms</b> <i>Rajan, Rijin</i>	<b>Aerodynamic Interference Between Rotors of Mars Multicopter in Compressible Flow</b> <i>Onishi, Ryutaro</i>	<b>An Advanced Schlieren Setup for the Investigation of Streamwise Vortices in Hypersonic Ramp Flows</b> <i>Noé, Micha René</i>
<b>A29_02</b> (S06)  Esther Lagemann	<b>Mitigating flow boiling instability in microchannels through geometrical modification</b> <i>Mysore Basavaraja, Darshan</i>	<b>Multiphase Fluidic Oscillator in a Heart-Spade Micro-Mixer Channel</b> <i>Kahouadji, Lyes</i>	<b>Scaling of the reaction yield in a X-micromixer</b> <i>Salvetti, Maria Vittoria</i>	<b>Self-organisation and rheology of sheared phoretic suspensions</b> <i>Michelin, Sebastien</i>

	17:00	17:15	17:30	17:45
<b>A31_02</b> (S02)  Aimee Morgans	<b>Investigating the Significance of Droplet Clusters in Spray Combustion by Means of Point-Droplet DNS</b> <i>Weiss, Philipp</i>	<b>Numerical investigation of soot formation in a laboratory-scale rich-quench-lean swirl burner using the high-order spectral element code Nek5000</b> <i>Papageorgiou, Dimitrios</i>	<b>Unraveling pressurized turbulent NH<sub>3</sub>/H<sub>2</sub> flames: A series of spectral element method-based high-fidelity DNS</b> <i>Kaddar, Driss</i>	<b>Unveiling the bi-stable character of stealthy hydrogen-air flames (YSA)</b> <i>Palomeque Santiago, Ruben</i>
<b>MS01_06</b> (H06)  Michele Buzzicotti	<b>m2MLC applied to smart skin separation mitigation</b> <i>Cornejo Maceda, Guy Y.</i>	<b>A Multi Environment Formulation for Data Assimilation in Cryogenic Storage Tanks</b> <i>Ahizi, Samuel</i>	<b>U-Net based Neural Network with Multigrid V-cycle for Navier Stokes Solution</b> <i>Bhaganagar, Kiran</i>	

# Thursday, September 19

<b>PS05</b> (H01)  Colm-cille Patrick Caulfield	<b>08:30</b> <b>Viscoelastic and inertioelastic instabilities of complex fluids.</b> <i>McKinley, Gareth</i>

<b>A01_08</b> (H01)  Catherine Colin	<b>10:00</b> <b>Racing drop moves faster in the aerodynamic Leidenfrost regime than the cold Leidenfrost regime</b> <i>Kushwaha, Abhijit Kumar</i>	<b>10:15</b> <b>Rayleigh Plateau Instability Manipulation: The effect of angle and eccentricity on fluids running down wires</b> <i>Maity, Dilip Kumar</i>	<b>10:30</b> <b>Spreading Dynamics of Droplets upon Impact on a Frosty Surface</b> <i>Wang, Feng</i>	<b>10:45</b> <b>Stretching separation in drop-drop and drop-jet collisions</b> <i>Baumgartner, David</i>	<b>11:00</b> <b>Surface bubble accelerates evaporation.</b> <i>Ma, Xue</i>	<b>11:15</b> <b>The cuboid drop: A low-dimensional model of drop dynamics on a substrate</b> <i>Gilet, Tristan</i>	<b>11:30</b> <b>The effect of gravity-induced shape change on the diffusion-limited evaporation of sessile and pendant droplets</b> <i>Wilson, Stephen K.</i>	<b>11:45</b> <b>Flows in a solidifying foam</b> <i>Huerre, Axel</i>

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A02_07</b> (H02)  <b>Laurette S Tuckerman</b>	<b>Rayleigh-Plateau instability driven by thermal fluctuations and the effect of surfactants</b> <i>Carnevale, Luís H.</i>	<b>Role of bulk viscosity on Richtmyer-Meshkov instability induced by polygonal interfaces</b> <i>Singh, Satyvir</i>	<b>Secondary instability of supersonic Gortler vortices excited by free-stream vortical disturbances</b> <i>Xu, Dongdong</i>	<b>Sensitivity of flows over three-dimensional swept wings at low Reynolds number</b> <i>Burtsev, Anton</i>	<b>Shear Instabilities Triggered by Autocatalytic Fronts Travelling in Viscosity Stratified Channel Flows</b> <i>Maharana, Surya Narayan</i>	<b>Stability and dynamics of the laminar flow past 3D rectangular prisms</b> <i>Boujo, Edouard</i>	<b>Stability of ablation flows in inertial-confinement fusion : Receptivity</b> <i>Thiriet, Jean-Gabriel</i>	<b>The viscoelastic flow around a confined cylinder: 3D linear stability analysis and transient simulations</b> <i>Tsamopoulos, John</i>
<b>A03_07</b> (H04)  <b>Francesco Viola</b>	<b>Plume- and shear-dominated boundary layer sections in high Rayleigh number convection</b> <i>Samuel, Roshan John</i>	<b>Prandtl number effects on Rayleigh-Bénard Convection at <math>Gr = 5 \times 10^7</math></b> <i>Stalio, Enrico</i>	<b>Quantitative shadowgraphy for heat transfer in turbulent thermal convection</b> <i>Dong, Jing</i>	<b>Semi-analytical model for an initially supercritical density current on a horizontal wall of finite length</b> <i>Haddad, Safir</i>	<b>Subcritical convection in a rotating cylinder</b> <i>Gianfrani, Jacopo Alfonso</i>	<b>Solutal convection in liquid metal electrodes</b> <i>Personnetaz, Paolo</i>	<b>Spatial modulation of the small coherent structures above a rough plate in turbulent Rayleigh-Bénard convection</b> <i>Carbonneau, Nathan</i>	<b>Synchronization phenomena of heat transfer inside rotating fluid annulus</b> <i>Oshima, Ippei</i>
<b>A04_05</b> (H06)  <b>Bernhard Vowinckel</b>	<b>Dynamics of long flexible fibers in turbulent channel flow</b> <i>Marchioli, Cristian</i>	<b>Effects of turbulence on the settling and dispersion of finite-size particles</b> <i>Tee, Yi Hui</i>	<b>Erosion on Complex Surfaces by Flows with High Particle Concentrations</b> <i>David, Eduardo R</i>	<b>Fiber aggregation in flows</b> <i>Gey, Lucas</i>	<b>Finite size effects in particle-laden turbulent flows</b> <i>Tandurella, Simone</i>	<b>Flow visualization using optically active particles</b> <i>van Hout, Rene</i>	<b>Formation of caustics of inertial particles observed with the Lagrangian tetrad model</b> <i>Zhang, Yu</i>	<b>Fragment size statistics and dynamics in a laboratory model of fragmentation of a 2D floating membrane by surface waves.</b> <i>Berhanu, Michael</i>
<b>A05_04</b> (H08)  <b>Holger Foyasi</b>	<b>Immersed Boundary Method Solver with Vanka Smoother for Efficient Implicit Computations</b> <i>Goncharuk, Kirill</i>	<b>Improvement of Compressibility Correction for the High Convective Mach Number Mixing Layer</b> <i>Tian, Yuyan</i>	<b>Is a direct numerical simulation of Navier-Stokes equations with small enough grid spacing and small enough time-step definitely reliable/correct?</b> <i>LIAO, Shijun</i>	<b>Large/Small Eddy Simulations: A High-Fidelity Simulation Method for High Reynolds Number Turbulent Flows</b> <i>Moitro, Arnab</i>	<b>Machine Learning Enhanced Collision Operator for the Lattice Boltzmann Method Based on Equivariant Networks</b> <i>Bedrunka, Mario Christopher</i>	<b>Machine-Learning-Based Droplet Shape Prediction in Piezo-Based Drop-on-Demand Inkjet Devices</b> <i>Hashemi, Ali Reza</i>	<b>Multishot ice accretion simulations in complex icing environments with an enhanced remeshing framework</b> <i>Ng, Jee Hann</i>	<b>NUMERICAL AND EXPERIMENTAL INVESTIGATION OF A LONGITUDINAL VORTEX OF A DELTA WING</b> <i>Soliman, Elrawy</i>



	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A06_05</b> (H05)  <b>Yoël Forterre</b>	<b>Sedimentation of flexible fibers through an ordered array of pillars</b> <i>Makanga, Ursy</i>	<b>Prediction of transonic buffeting based on aeroelastic global stability analysis</b> <i>Plath, Matthias</i>	<b>Pendulum chain motions in large scale turbulent fluctuations</b> <i>Zhang, Jishen</i>	<b>Passive reconfiguration of flexible filament arrays for D-Shaped body wake control</b> <i>Muñoz-Hervás, Jose Carlos</i>	<b>Interaction of surface waves with an array of buoys</b> <i>Komaroff, Diane</i>	<b>IBM-DEM CFD coupling for wave impact on break-water armor blocks</b> <i>Barcet, Matthieu</i>	<b>Hydrodynamic wrinkling induced by gap flow</b> <i>Joung, Seyoung</i>	<b>Fluttering motion of cylinders freely falling in a thin-gap cell containing liquid at rest</b> <i>Ern, Patricia</i>
<b>A07_05</b> (H03)  <b>Christopher Schauerte</b>	<b>Numerical Analysis of Aerodynamic Interference between Propeller and Fixed Wing of Mars Airplane</b> <i>Sasaki, Masayuki</i>	<b>Random switching dynamics and low frequency oscillations around airfoil stall</b> <i>Monchaux, Romain</i>	<b>The wake dynamics of a simplified road vehicle and the influence of wheels.</b> <i>Janczuk, Kacper Oskar</i>	<b>Unraveling the hydrodynamic efficiency of manta ray-inspired swimming through numerical simulation</b> <i>Kumar, Rahul</i>	<b>A log-layer analogy for fluid acceleration in boundary layers with pressure gradients</b> <i>Yang, Xiang</i>	<b>A near-wall model for heat transfer prediction in laminar flows at high Prandtl number: application to liquid jet and film cooling</b> <i>INGLES, Adrien</i>	<b>Boundary-Layer Transition Over Rough Rotating Disks: Comparison of two Roughness-Modelling Approaches</b> <i>Parapamulla Yapa Arachchige, Gayani</i>	<b>Investigating Prandtl number effects in heated concentric coaxial pipe flow at high Reynolds number</b> <i>Tsai, Pei-Yun</i>
<b>A08_04</b> (H11)  <b>Roberto Verzicco</b>	<b>Drag reduction in axially rotating turbulent pipe flow</b> <i>Xiao, Maochao</i>	<b>Effect of property variations on stratified turbulent flows</b> <i>Kotturshettar, Sanath</i>	<b>Effective method for resolving surface structures – comparison between adaptive and overlapping meshes</b> <i>Pulletikurthi, Venkatesh</i>	<b>Intrinsic compressibility effects in near-wall turbulence</b> <i>Hasan, Asif Manzoor</i>	<b>Predictability of extreme events in a reduced-order model of shear flows</b> <i>Morón, Daniel</i>	<b>A new approach to modelling rough surfaces within the k-ε framework</b> <i>Sojoudi, Ata</i>	<b>The bottleneck in the scalar dissipation rate spectra; dependence on the Schmidt number</b> <i>orlandi, paolo</i>	<b>Turbulent / Non-Turbulent Interface Detection using the Uniform Momentum Zone Boundary in a Turbulent Boundary Layer</b> <i>Soria, Julio</i>
<b>A11_04</b> (H09)  <b>Artur Tylicszczak</b>	<b>Active learning based surrogate model for drag and heat transfer prediction in internal flows with eddy-promoters</b> <i>Kaithakkal, Arjun John</i>	<b>Boundary layer stabilization by Miniature Vortex Generators</b> <i>Szabó, András</i>	<b>Closed-loop control of finite amplitude perturbations: application to sub- and super-critical flow-bifurcations.</b> <i>Salmon, Mathieu</i>	<b>Confluence of Wall Shear Stress and its Relation to Vorticity Surface Flux and Flow Separation</b> <i>Rütten, Markus</i>	<b>Implicit large-eddy simulations of turbulent boundary layer over the discontinuous converging and diverging riblets</b> <i>Wang, Hao</i>	<b>Using Dynamical Low-Rank Approximation to solve high-dimensional linear optimal feedback control problems</b> <i>Loiseau, Jean-Christophe</i>	<b>Travelling Wave Pulsed Jet Actuation for More Efficient Flow Separation Control</b> <i>Land, Sam</i>	

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>A19_02</b> (S02)  <b>Karl Alexander Heufer</b>	<b>An unstable shock wave boundary layer interaction alternating between regular reflection and Mach reflection</b> <i>Scharnowski, Sven</i>	<b>Analysis of Separation Characteristics for an Oscillating Shock-Boundary Layer Interaction</b> <i>Kumar, Anandu S</i>	<b>Atmospheric re-entry flow simulations in ionization regime</b> <i>Bonelli, Francesco</i>	<b>CFD study of a shock wave compression rotary engine</b> <i>Szudarek, Maciej</i>	<b>Compressibility effects in turbulent boundary layers over smooth and rough surfaces</b> <i>Cogo, Michele</i>	<b>DNS and LES of shock-turbulence interaction in internal flows</b> <i>Ghosh, Somnath</i>	<b>Evaluation of a two-phase piston pump model for cryogenic fluids transport</b> <i>COTTAREL, Valentin</i>	<b>Experimental Analysis of Propellant Gas Suppression in Shattered Pellet Injector System of the ITER experiment</b> <i>Gyenge, Ákos</i>
<b>A26_02</b> (H07)  <b>Andrea Schillaci</b>	<b>Reconstructing temperature fields in S-Duct based on pressure measurements using physics-informed neural networks</b> <i>Teng, Jian</i>	<b>Spectral adjoint-based assimilation of sparse data for augmented unsteady simulations of turbulent flows</b> <i>Plogmann, Justin</i>	<b>Subgrid-scale modeling of stratified turbulence using a constrained artificial neural network</b> <i>Nishiyama, Daisuke</i>	<b>Temporal forecasting of turbulent Rayleigh-Bénard convection using echo state networks</b> <i>Sharifi Ghazijahani, Mohammad</i>	<b>Using the ZPG-TBL DNS data to benchmark the performance of Physics Informed Neural Network (PINN) for heat transfer modelling</b> <i>Sundaresan, Aakhash</i>	<b>Learning the dynamics of symmetry-reduced chaotic attractors in fluid dynamics from data</b> <i>Kneer, Simon</i>		
<b>A27_02</b> (S05)  <b>Bernard Knaepen</b>	<b>Electrokinetic interaction between Surface Acoustic Waves and Electrolyte Solutions: Field Effect and Ion Electro-Mechanical Resonance</b> <i>Manor, Ofer</i>	<b>Electrophoretic bifurcation structure of a Janus nano-sphere under gravity</b> <i>Vaknin, Yariv</i>	<b>Resolving the electrostatic boundary layer in a turbulent electrohydrodynamic flow with a map-based stochastic modeling approach</b> <i>Klein, Marten</i>	<b>Anisotropization of quasistatic MHD turbulence with an increasing magnetic field: Transition from three to two dimensions</b> <i>Sukoriansky, Semion</i>	<b>Building blocks of triadic interaction in Hall Magnetohydrodynamic turbulence</b> <i>Banerjee, Supratik</i>	<b>Inertial transfer and small-scale structures in magnetohydrodynamic turbulence</b> <i>Capocci, Damiano</i>		
<b>A28_02</b> (S06)  <b>Stefanie Rauchenzauner</b>	<b>Flow and capture of droplets through and around a porous screen</b> <i>Marchand, Olivier Claude</i>	<b>Leveraging homogenization theory to assess interfacial flows through permeable membranes</b> <i>Gallaire, François</i>	<b>Mixture Theory: a Generalized Modeling Approach for Multiphase Flows in Porous Media</b> <i>Tagliavini, Giorgia</i>	<b>Modeling of nanoparticle aggregation in porous media</b> <i>Papavassiliou, Dimitrios V.</i>	<b>Quasi-linear homogenization for laminar transport across permeable membranes</b> <i>Wittkowski, Kevin</i>	<b>Extruded grids of arbitrary cross section in creeping flow</b> <i>Abdelaziz, Hos-sameldin</i>	<b>A simulation model for oblique flow through a wire screen based on a homogenized porous layer approach</b> <i>Schoppmann, Karl</i>	

	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45
<b>MS02_01</b> (H10)  <b>John Tsamopoulos</b>	<b>Weakly non-parallel linear instability of a condensing film flow</b> <i>Djambov, Simeon</i>	<b>Stability of waves on fluid of infinite depth with constant vorticity</b> <i>Blyth, Mark</i>	<b>Parametric instability due to surface wave interactions on rivulets in a Hele-Shaw cell</b> <i>Le Lay, Grégoire</i>	<b>Numerical simulations of surfactant-covered Faraday waves: role of Marangoni stresses in pattern formation</b> <i>Panda, Debashis</i>	<b>Bistability (and singularity) in the onset of drop Quincke rotation</b> <i>Schnitzer, Ory</i>	<b>Impacts of Liquid Drops: When Do Gas Microfilms Prevent Merging?</b> <i>Lewin-Jones, Peter</i>	<b>Frozen wave instability induced by high frequency horizontal vibrations on an LST Heavy Liquid/Silicone Oil interface</b> <i>Castillo-Castellanos, Andrés</i>	<b>Instabilities in interfacial flows driven by horizontal electric fields</b> <i>Guan, Xin</i>

	13:00
<b>PS06</b> (H01)  <b>Matthias Heil</b>	<b>Shaping up to explore and exploit unsteady fluid-structure interactions.</b> <i>Mulleners, Karen</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A01_09</b> (H01)  <b>Rohith Jayaram</b>	<b>Thermal Antibubbles: When Thermalization of Encapsulated Leidenfrost Drops Matters</b> <i>Scheid, Benoit</i>	<b>Three fluids simulations : Drop impact over a thin immiscible liquid film, a new scaling law for the bubble entrapment</b> <i>MAËS, Pierre-Antoine</i>	<b>Droplet nucleation in water condensation processes</b> <i>Occhioni, Filippo</i>	<b>Modelling droplet interfacial heat and mass transfer under sheared gas flow conditions</b> <i>Planas Zanutto, Conrado</i>	<b>Statistical approach for free-rising bubbles in quiescent water under single bubbling regime</b> <i>BLAISOT, Jean-Bernard</i>	<b>On the coalescence-induced dynamics of electro-generated gas bubbles on micro-electrodes</b> <i>Bashkatov, Aleksandr</i>	<b>Contact line dynamics of coalescing electrolytic bubbles on a transparent electrode</b> <i>Demirkir, Çayan</i>	<b>Linear stability of a liquid film on a vibrating substrate for spray formation</b> <i>Brenn, Günter</i>
<b>A02_08</b> (H02)  <b>Anke Lindner</b>	<b>Stabilization mechanisms of various methods on the traveling crossflow instability in hypersonic boundary-layer flows</b> <i>Lu, Jiachen</i>	<b>Statistics of the lifetime of localized turbulence in channel flow</b> <i>Song, Baofang</i>	<b>Subcritical instability of a premixed V-flame</b> <i>Lesshafft, Lutz</i>	<b>Subcritical transition in Blasius boundary layer investigated using Optimally time-dependent modes</b> <i>Duguet, Yohann</i>	<b>The Effect of Distributed Roughness on the Transitional Separated Flow over a Flat Plate</b> <i>Yin, Zifei</i>	<b>The interscale behaviour of uncertainty in three-dimensional Navier-Stokes turbulence</b> <i>GE, Jin</i>	<b>The memory of Rayleigh-Taylor turbulence</b> <i>Thevenin, Sébastien</i>	<b>The minimal seed for transition to convective turbulence in heated pipe flow</b> <i>Chu, Shijun</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A03_08</b> (H04)  <b>Johannes Bosbach</b>	<b>Stability Analysis of Sheared Thermal Boundary Layers and its Implication for Modelling Turbulent Rayleigh-Bénard Convection</b> <i>Creyssels, Mathieu</i>	<b>The horizontal far wake behind a heated or cooled body</b> <i>Schneider, Wilhelm</i>	<b>Thermal boundary layer in liquid metal Rayleigh-Bénard convection</b> <i>Kim, Nayoung</i>	<b>Thermo-convection due to internal heating in Liquid Metal Batteries</b> <i>HIREMATH, Anupam Mahantayya</i>	<b>Tornado-like vortices in Magneto-Coriolis-Centrifugal Convection</b> <i>Keogh, Declan Finn</i>	<b>Transient buoyant axisymmetric convection of a highly thermodependant viscous fluid with Newtonian and non-Newtonian behaviour</b> <i>Badia, Ayoub</i>	<b>Turbulent Rayleigh-Bénard convection with rough surface</b> <i>du Puits, Ronald</i>	<b>Heat transfer and flow regimes in liquid metal magnetoconvection with a horizontal magnetic field</b> <i>Teimurazov, Andrei</i>
<b>A04_06</b> (H06)  <b>Julien CHAUCHAT</b>	<b>Free fall of a group of inertial cylinders: impact of the elongation ratio on the multiscale dynamics</b> <i>Letessier, Dylan</i>	<b>Inertial particles clustering in turbulence: a computational study on the effect of filtering, caustic folds and cluster length scales</b> <i>Codispoti, Lukas A.</i>	<b>Influence of highly dilute neutrally buoyant particles on transitional pipe flow characteristics</b> <i>Raj, Rishav</i>	<b>Large heavy particles in wall-bounded turbulence</b> <i>Jäckel, Robert</i>	<b>Modelling and prediction of inertial particle velocity in turbulent channel flow</b> <i>Ruan, Yucang</i>	<b>Near-wall accumulation of inertial particles in compressible turbulent channel flows</b> <i>Zhang, Ying</i>	<b>Numerical calculation of the multi-phase transport in geothermal drilling using a Eulerian-Lagrangian approach</b> <i>Ibrahim, Hozan</i>	<b>Numerical study of the particle-bed interaction dynamics in viscous fluids using a combined constraint/impulse-based approach</b> <i>Ibrahim, Hozan</i>
<b>A05_05</b> (H08)  <b>Andrea Beck</b>	<b>Numerical Investigation of Influence of Upstream Components on Sand Erosion and Aerodynamics of 1st-Stage Stator in Low-Pressure Turbine</b> <i>Watanabe, Mizuki</i>	<b>Robust Gradient-Based Solver for Invariant Solutions to the Navier-Stokes Equations using Resolvent Analysis</b> <i>Burton, Thomas</i>	<b>Shape Optimization of a Curved Pipe - Simulation and Experiment</b> <i>Becker, Stefan</i>	<b>Studies of shock impingement and reflection by a new IDDES-SPOM</b> <i>Yang, Yijiang</i>	<b>Systematic grid design in direct numerical simulation</b> <i>Toosi, Siavash</i>	<b>Towards Exascale CFD with Spectral Element Methods: Applications and Workflows</b> <i>Bode, Mathis</i>	<b>Turbulent cascade in polymer solutions</b> <i>Massarelli, Elena</i>	<b>Simulating convection and boundary layers with logarithmic spatial resolution</b> <i>Saxton, Curtis J.</i>
<b>A07_06</b> (H03)  <b>Eduardo Duran</b>	<b>Heat Flux Augmentation Along A Sharp Cone At Hypersonic Flow Conditions</b> <i>Neeb, Dominik</i>	<b>Hypersonic laminar-turbulent boundary layer transition on the ogive of the STORT configuration</b> <i>Willems, Sebastian</i>	<b>Characterisation of realistic rough walls in compressible turbulent boundary layers</b> <i>Wangawijaya, Dea Daniella</i>	<b>Drag determination from mean velocity in rough wall boundary layers</b> <i>Volino, Ralph J</i>	<b>Energy and enstrophy cascades in turbulent boundary layers</b> <i>Boga, Gabriele</i>	<b>Friction decomposition for rough-wall flows</b> <i>Zhang, Wen</i>	<b>Influence of small-scale orography on near-surface turbulence in the atmospheric boundary layer</b> <i>Deshpande, Shreyas</i>	<b>Passive control of boundary layer flows through interaction with a compliant viscoelastic wall</b> <i>Penet, Pierre</i>

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A08_05</b> (H11)  <b>Björn Hof</b>	<b>Structure-based canopy density diagnosis, characterisation and prediction</b> <i>Chen, Zishen</i>	<b>The effect of modulated driving on turbulent plane Couette flows</b> <i>Ostilla Monico, Rodolfo</i>	<b>Transition to turbulence in plane Couette flow with surface roughness</b> <i>S, Gokul</i>	<b>Turbulence and chemistry statistics in a supersonic boundary layer with hydro-gen combustion</b> <i>Wang, Chuhan</i>	<b>Turbulent pipe flow with imposed radial rotation</b> <i>Ceci, Alessandro</i>	<b>Velocity transformation for compressible wall-bounded turbulence — An approach through the lens of the mixing length hypothesis</b> <i>Xia, Zhenhua</i>	<b>Evaluating turbulent wall-bounded flows over rough walls using One-Dimensional Turbulence: reduced drag parametrization for homogeneous roughness</b> <i>Medina Méndez, Juan A.</i>	<b>On the relationship between the blanketing layer topography and the mean flow statistics of turbulent flow over rough surfaces</b> <i>Busse, Angela</i>
<b>A09_05</b> (H05)  <b>Guido Bof-fetta</b>	<b>Oscillating viscous flow around a circular cylindrical post confined between two parallel plates</b> <i>Moral-Pulido, Francisco</i>	<b>Pulsatile Flow of Newtonian and Non-Newtonian Blood-Analog in Compliant Vessels</b> <i>Johanning-Meiners, Benedikt Harald</i>	<b>Red Blood Cells ordering in Newtonian and Viscoelastic Flow</b> <i>Wagner, Christian</i>	<b>Stability of a finite-length collapsible channel flow to spanwise perturbations</b> <i>González Herrero, Emiliano</i>	<b>Strategies to simulate the liquid plug rupture process in lungs</b> <i>Subburaj, Rahul</i>	<b>Transport of nutrients in symbiotic fungal networks</b> <i>Bourrienne, Philippe</i>	<b>The low amplitude wing beating of mosquitoes and its effect on wing-wake interaction</b> <i>Buchner, Abel-John</i>	
<b>A10_04</b> (H07)  <b>Giuseppe Antonio Rosi</b>	<b>Experimental investigation of the bubbly downcomer flow in a pressurized pneumatic flotation cell</b> <i>Zürner, Till</i>	<b>Experimental study of a two-phase flow thermosiphon, in stationary and transient regimes</b> <i>Boyer, Pierre</i>	<b>Fully coupled multiphase method for high-resolution simulations of two-phase sealing gap flows</b> <i>Vorspohl, Julian</i>	<b>Heat transfers modeling for high-pressure boiling flows</b> <i>Chavasse-Frétaz, Etienne</i>	<b>Icebergs melting side by side: numerical study of collective effects</b> <i>Angriman, Sofia</i>	<b>Investigating Cavitation Activity and Damage Evolution in Kidney Stone Fragmentation through X-ray High-Speed Imaging and Microtomography</b> <i>Sieber, Armand</i>	<b>Melting of a horizontal ice cylinder in salty water</b> <i>Xu, Dehao</i>	<b>Modeling of bubble-particle collision rate based on the bubble slip motion</b> <i>Jiang, Linfeng</i>
<b>A11_05</b> (H09)  <b>Heng-Dong Xi</b>	<b>Control of Cavity Oscillations in Transonic Flows using Periodic Microstructures</b> <i>Bansal, Harshit</i>	<b>Control of optimal instabilities in pulsating channel flow</b> <i>Narayanan, Vinod</i>	<b>Experimental study of trailing vortices alleviation using axial synthetic jets</b> <i>Garrido-Martin, Manuel</i>	<b>On the Behavior of a Slot Jet in a Crossflow</b> <i>Gloutak, Dasha</i>	<b>Passive control of laminar boundary-layer instabilities with phononic sub-surfaces</b> <i>Fabbiane, Nicolo</i>	<b>Selective withdrawal and light fluid confinement in asymmetric stratified flows</b> <i>Dorado, Poeti</i>		

	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15
<b>A12_05</b> (S04)  <b>Jacques Magnaudet</b>	<b>Scale-by-scale energy budget in turbulent wind-wave interactions</b> <i>Cimarelli, Andrea</i>	<b>Scaling thermal mixing in super-confined Rayleigh Bénard Convection</b> <i>Ulloa, Hugo N</i>	<b>Settling versus mixing in stratified shear flows</b> <i>Petropoulos, Nicolaos</i>	<b>The influence of rotation on salt fingers</b> <i>Miquel, Benjamin</i>	<b>The nature of density-stratified flow of finite depth over finite obstacles</b> <i>Philip, Jimmy</i>	<b>Three-dimensional structure of pancake anti-cyclonic vortices in a stratified rotating fluid</b> <i>Niu, Zhaodong</i>	<b>Regimes of rotating convection in a tangent cylinder</b> <i>Horn, Susanne</i>	
<b>A22_02</b> (S03)  <b>Dwight Barkley</b>	<b>Basset history effects on particles settling under gravity in unsteady Stokes flow</b> <i>Jaroslawski, Tomek</i>	<b>Insights into analytical modelling of laminar flow through interacting circular channels</b> <i>Schönecker, Clarissa</i>	<b>On the theory of body motion in confined Stokesian fluids</b> <i>Procopio, Giuseppe</i>	<b>Sedimentation of a nematic droplet</b> <i>Mimoh, Yassine</i>	<b>Sedimentation of a single soluble particle at low Reynolds and high Péclet numbers</b> <i>He, Nan</i>	<b>Sticking without contact : elasto-hydrodynamic adhesion</b> <i>Bertin, Vincent</i>	<b>Stokes flow induced by the rigid-body motion of a slip particle near a slip plane wall</b> <i>LOUCHAMI, ANIS</i>	
<b>A23_02</b> (S02)  <b>Jochen Kriegseis</b>	<b>Experimental Analysis of Mono-phase Plunging Jets: Exploring shape Variations</b> <i>Moscato, Giorgio</i>	<b>Experimental assessment of the influence of an active pre-chamber on the tumble-motion flow inside combustion engines</b> <i>Rommelaere, Tim Philippe</i>	<b>Experimental Investigation of Lattice Structures for Regenerative Cooling of Additively Manufactured Rocket Nozzles</b> <i>Wörmann, Sven Lucas</i>	<b>Hot-wire measurements in the near-wake of a 3D bluff body</b> <i>Sújar-Garrido, Patricia</i>	<b>Oil film-flow measurement via astigmatism PTV for evaluating skin friction</b> <i>Ichikawa, Yoshiyasu</i>	<b>Quantitative Analysis of the Transonic Flow Field surrounding a Supercritical BAC 3-11 Airfoil using a Calibrated Schlieren Setup</b> <i>Retiene, Henrik</i>	<b>Towards DPTV and IPI across Curved Displacement-Compressor Surfaces: Impact of Astigmatism on Particle-Image Characteristics of Bubbles and Tracers</b> <i>Kriegseis, Jochen</i>	<b>A bifurcation-based digital MEMS-based flow sensor towards a turbulent flow sensing</b> <i>Litvinov, Ivan</i>
<b>A32_01</b> (S01)  <b>Jens Fransson</b>	<b>Effects of wind turbine rotor tilt on large-scale wind farms</b> <i>Kasper, Jens H.</i>	<b>Impact of Negative Geostrophic Wind Shear on Wind Farm Performance</b> <i>Stevens, Richard</i>	<b>Static and Dynamic Control for Wind Farm Wake Steering using LES</b> <i>Mole, Andrew</i>	<b>Turbulence coherence in wind farms: The role of turbines</b> <i>Liu, Yang</i>	<b>Wind-tunnel study of wake-steering control applied to a multi-column wind farm</b> <i>Micheletto, Derek</i>	<b>Reynolds number effects on the performance of a model wind turbine</b> <i>Hattori, Yuna</i>		
<b>MS02_02</b> (H10)  <b>Demetrios T. Papageorgiou</b>	<b>Dynamics of ferrofluid jets: the Hamiltonian framework</b> <i>Wang, Zhan</i>	<b>Chromocapillary instabilities in viscous liquid threads</b> <i>Papageorgiou, Demetrios T</i>	<b>Asymptotic modelling for the spreading of thin viscous drops on a chemically heterogeneous surface by gravity and surface tension</b> <i>Savva, Nikos</i>	<b>Active control of thin liquid film flows using a hierarchy of models</b> <i>Cimpeanu, Radu</i>	<b>Active control of liquid film flows: beyond reduced-dimensional models</b> <i>Cimpeanu, Radu</i>	<b>Absolute and convective instabilities in a liquid film over a substrate moving against gravity</b> <i>Pino, Fabio</i>		

	17:00	17:15	17:30	17:45
<b>A01_10.1</b> (H01)  Rohith Jayaram	<b>Bursting of non-aqueous suspended liquid films induced by the spreading of emulsified droplets</b> <i>Delance, Léa</i>	<b>Computational modelling of an evaporating binary droplet of colloidal suspension</b> <i>Drewer, Charles</i>	<b>Elastocapillary Worthington jet &amp; droplets produced by bursting bubbles</b> <i>Dixit, Ayush Kumar</i>	<b>Three-dimensional analysis of the flow induced by single bubbles rising in a chain</b> <i>Bauer, Katrin</i>
<b>A01_10.2</b> (H02)  Anke Lindner	<b>Confinement effect on air-bubble plumes in quiescent water under the jetting regime</b> <i>RENOULT, Marie-Charlotte</i>	<b>Droplet impact dynamics: efficient modelling with depth-averaged form</b> <i>Veremieiev, Sergii</i>	<b>Experimental bifurcation analysis of a deformable bubble using control-based continuation.</b> <i>Ayoubi, Sammy</i>	
<b>A03_09</b> (H04)  Johannes Bosbach	<b>Validity of the turbulent viscosity concept in internally heated convective turbulence: Application to corium during nuclear severe accident</b> <i>Desaleux, Thibault</i>	<b>Wall-Modeling Approaches for Large Eddy Simulations of Natural Convection</b> <i>Ceresiat, Lise</i>	<b>Wavenumber transition in vertical convection involving D3 and D4 symmetry</b> <i>Tuckerman, Laurette</i>	
<b>A04_07</b> (H06)  Julien CHAUCHAT	<b>Numerical study of particle transport in the wake of one or several bodies under different flow conditions</b> <i>Zeballos Rivera, Hans Joans</i>	<b>Shear-induced particle migration in multi- and poly-disperse concentrated viscous suspensions. Effect of particle size distribution</b> <i>Lavrenteva, Olga</i>	<b>Direct numerical simulation of particle clustering in compressible turbulent channel flows using an Eulerian approach</b> <i>DHANKARGHARE, AJAY</i>	<b>Particle resuspension from complex multilayer deposits by laminar flows: statistical analysis and modeling</b> <i>Henry, Christophe</i>
<b>A05_06</b> (H08)  Andrea Beck	<b>Turbulent Heat Transfer in Tubes with Irregular Roughness: Insights from Wall-Resolved LES at Medium-High Prandtl Numbers</b> <i>Garg, Himani</i>	<b>Unstructured space-time meshes for accurate and automated handling of moving boundaries in fluid flow simulation</b> <i>Behr, Marek</i>	<b>Wall-resolved large-eddy simulation of turbulent flow over periodic hills at <math>Re = 37000</math></b> <i>Münsch, Manuel</i>	<b>Quasi-dynamic subgrid-scale kinetic energy equation model for large-eddy simulation of compressible flows</b> <i>Yu, Changping</i>
<b>A07_07</b> (H03)  Eduardo Duran	<b>POD-based analysis of large-scale coherence in turbulent pipes</b> <i>Massaro, Daniele</i>	<b>Predicting friction and heat transfer in forced-air convection with variable physical properties</b> <i>Modesti, Davide</i>	<b>Structure of turbulent flow in a wind tunnel canopy model with spanwise heterogeneity</b> <i>Liberzon, Dan</i>	<b>Wind tunnel investigations of the dispersion characteristics of ship exhausts in a neutral boundary layer</b> <i>Sankaran, Abhilash</i>
<b>A08_06</b> (H11)  Björn Hof	<b>Nonlinear energy transfer in composite resolvents for space-time energy spectra</b> <i>He, Guowei</i>	<b>Turbulence over porous and rough surfaces in a common framework</b> <i>Hao, Zengrong</i>	<b>Causality-based analysis of wall-bounded turbulent flows</b> <i>Hansen, Christoffer</i>	<b>Dynamics of turbulent energy and dissipation in channel flow</b> <i>Yin, Le</i>

	17:00	17:15	17:30	17:45
<b>A09_06</b> (H05)  Guido Boffetta	<b>Three-Dimensional Simulations of O2 Transport and Exchange by RBC During its Motion through Arterioles</b> <i>Gaikwad, Harshad</i>	<b>Tomo-PIV Measurements on a Patient-Specific Model of the Human Nasal Cavities as a Validation Basis for CFD</b> <i>Krenkel, Lars</i>	<b>Transition from jet propulsion to rowing propulsion in biologic swimmers</b> <i>Nitti, Alessandro</i>	<b>Wind Tunnel experiments on migrant dragonflies <i>Pantala flavescens</i>: Force Measurements in Headwind and Tailwind flight</b> <i>Ranjan, Kumar Sanat</i>
<b>A10_05</b> (H07)  Giuseppe Antonio Rosi	<b>Modelling the wave-induced mean flow in orbital sloshing</b> <i>Fullana, Tomas</i>	<b>On the effect of deformable bubbles in a turbulent low Prandtl carrier phase</b> <i>Procacci, Davide</i>	<b>Pointy tip singularity shape in sessile water droplet freezing</b> <i>Peralta, Sergio</i>	
<b>A11_06</b> (H09)  Heng-Dong Xi	<b>HydroGym: A Platform for Reinforcement Learning in Fluid Dynamics</b> <i>Ahnert, Samuel</i>	<b>Numerical analysis of the adverse pressure gradient flows over a two-dimensional wavy-wall</b> <i>Elsner, Witold</i>	<b>Numerical Investigation on Flow Control to Mitigate Cavitation on Hydrofoils</b> <i>Cox, Adam</i>	
<b>A12_06</b> (S04)  Jacques Magnaudet	<b>Vertical velocities in quasi-geostrophic floating vortices</b> <i>Aulnette, Marine</i>	<b>New model for aggregation of ash in explosive volcanic eruptions</b> <i>Efstathiou, Georgios</i>	<b>Artificial ice sheet at the laboratory scale: experimental mode</b> <i>Auvity, Baptiste</i>	
<b>A22_03</b> (S03)  Dwight Barkley	<b>The influence of rotation on Couette flows and heat transfer</b> <i>Brethouwer, Geert</i>	<b>Suppressing wall modes in rapidly-rotating Rayleigh-Bénard convection</b> <i>Favier, Benjamin</i>	<b>Simulating vortex breakdown in wing-tip vortices in the transitional regime</b> <i>Mishra, Sameer</i>	<b>Notable effect of curvature on Reynolds-averaged Navier-Stokes models in co-rotating Taylor-Couette flow at high Reynolds number</b> <i>Inagaki, Kazuhiro</i>
<b>A23_03</b> (S02)  Jochen Kriegseis	<b>Turbulence on Demand: Different Excitation Methods for Active Grids</b> <i>Peinke, Joachim</i>	<b>Volumetric Lagrangian temperature and velocity measurements in thermal convection with TLCs</b> <i>Käufer, Theo</i>		
<b>A32_02</b> (S01)  Jens Fransson	<b>Estimation of aerodynamic forces on a train passing through tornado-like swirling flow via wind tunnel testing</b> <i>Suzuki, Masahiro</i>	<b>Investigation on thermal management for electrified aero engines using experiments in a modular air duct</b> <i>Sebastian, Merbold</i>	<b>Numerical simulation of droplet dripping in the slag pool for electroslag remelting with external magnetic field</b> <i>Guo, Jiahong</i>	<b>Melting of wall-mounted ice in shear flow</b> <i>Jolley, Ellen Mary</i>



# Friday, September 20

	08:30	08:45	09:00	09:15	09:30	09:45	10:00	10:15	10:30	10:45
<b>A01_11</b> (H01) Zhigang Zuo	<b>Breakup of viscous capillary bridges on solid surfaces</b> <i>Farrokhi, Salar</i>	The influence of coherent structures on the break-up of a drop <i>Jayaram, Rohith</i>	<b>Formation of a single non-Newtonian drop composed of an emulsion</b> <i>Mounkaila Noma, Djibrilla</i>	Single Cavitation Bubble Dynamics and Erosion in a Planar Shear Flow <i>Mnich, Dominik</i>	<b>Tuning the motion of Bretherton's bubbles: effect of centrifugation and of inclination</b> <i>Marcotte, Alice</i>	Universality of satellites in the breakup of a stretched fluid bridge <i>Frishman, Anna</i>				
<b>A02_09</b> (H02) Lutz Lesshaft	<b>Towards a new closure model for linearized mean field analysis inspired by inherent Lie symmetries of the system</b> <i>Knechtel, Sophie Julie</i>	Towards a novel transient-growth based statistical stability criterion for channel flow <i>Klingenberg, Dario Simon</i>	<b>Transition in pipe flow in the presence of body forces</b> <i>Hof, Björn</i>	Turbulent bands and stripes formation mechanisms in planar shear flows <i>Ayats, Roger</i>	<b>Turbulent transition of shear-thinning pipe flow</b> <i>Wang, Baoying</i>	Using periodic orbits to quantitatively describe three-dimensional transitional turbulent thermal convection <i>Zheng, Zheng</i>	<b>Weakly non-linear study of a spontaneous symmetry breaking in a triple inlet channel.</b> <i>Debuysschère, Robin</i>	Can topology help us enumerating all UPOs of a chaotic PDE? <i>Abadie, Marie</i>		

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<b>A04_08</b> (H06)  <b>Gunther Brenner</b>	<b>Preferential concentration of particles in decaying isotropic turbulence</b> <i>Sarkar, Abishek</i>	<b>Incipient motion of a single particle on a regular substrate in an oscillatory flow inferred by combined DNS and PIV measurements</b> <i>van Overveld, Timo</i>	<b>Flexible fibers' transport in homogeneous and isotropic turbulent flow: experimental study</b> <i>Poncelet, Hugo</i>	<b>Hydromechanics of fluid-particle interactions in complex fluids: constitutive equations and the meaning of dissipation</b> <i>Giona, Massimiliano</i>	<b>Settling of not so heavy particles in a turbulent flow: experiment and simulations</b> <i>Monchaux, Romain</i>	<b>Visualising particle centrifugation at 5000Gs</b> <i>Mikkers, Maurice</i>	<b>Phase space analysis of the heat transfer in a shearless particle-laden turbulent flow</b> <i>Zandi Pour, Hamid Reza</i>	<b>The role of the forces acting on light particles dispersed in wall turbulence</b> <i>Zaza, Domenico</i>	<b>Transient density-driven granular segregation dynamics in a rotating drum</b> <i>Papapetrou, Theodoros Nestor</i>	
<b>A05_07</b> (H08)  <b>Matthias Meinke</b>	<b>A total-shear-stress-conserved wall model for large-eddy simulation of high-Reynolds number wall turbulence</b> <i>Liu, Huan-Cong</i>	<b>An a priori analysis of subgrid-scale models for large-eddy simulations (LES) that preserve the symmetries of the Navier-Stokes equations</b> <i>akhal, najma</i>	<b>Influence of structural vibrations represented by pure plunging motion on the aerodynamic loads of an airfoil in high Reynolds number flows using implicit LES</b> <i>Feldner, Yannik</i>	<b>LES model based on exact two-point equations and evaluation in a Taylor-Green flow</b> <i>Beaumard, Paul</i>	<b>Controlling the Viscous-Inertial Transitions in Volume-Imposed Rheometry of Dense Suspensions</b> <i>Khodabakhshi, Alireza</i>	<b>Droplet dynamics in homogeneous isotropic turbulence with the Immersed-Boundary Lattice Boltzmann method</b> <i>Taglienti, Diego</i>	<b>Microstructure of dense suspensions in pressure-imposed rheometry at the viscous-inertial transition</b> <i>Konidena, Sudarshan</i>	<b>Effects of wall motion reconstruction in numerical simulations of left atrial blood flow</b> <i>Stöcker, Yvonne</i>	<b>Direct Numerical simulations of wave breaking: spilling versus plunging</b> <i>Kadari, Vinod Kumar</i>	
<b>A06_06</b> (H03)  <b>Karen Mul-leners</b>	<b>Floating anisotropic particles</b> <i>Reizman, Avital</i>	<b>Experimental study of the Flow-induced Vibration of a cut corner prism energy harvester</b> <i>Wang, Weizhe</i>	<b>Energy harvesting of a three-dimensional plate in laminar and turbulent flows</b> <i>Nagy, Bálint</i>	<b>Dynamics of a retracting elastic sheet on a free surface</b> <i>Jung, Cheol-gyun</i>	<b>Dynamic fluid-structure interaction of a poroelastic cluster under fluid flow</b> <i>Lee, Minhyeong</i>	<b>Drag variations from switching states in bistable origami mechanism</b> <i>Ramanarivo, Sophie</i>	<b>Direct numerical simulations of free-falling discs in turbulence</b> <i>Alexandrou, Panagiotis</i>	<b>Control of shock-induced fluid-structure interaction using viscoelastic materials</b> <i>Couliou, Marie</i>	<b>Experimental and numerical investigations on the free falling of the planar particles at high Reynolds numbers: particle trajectory and flow vortical structures</b> <i>Pourfattah, Farzad</i>	

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<b>A10_06</b> (H07)  <b>Wolfgang Schröder</b>	<b>Revisit to the ADM-tau method for two-phase LES</b> <i>Aniszewski, Wojciech</i>	<b>The flow field around an air-water interface subjected to incoming turbulence</b> <i>Elashmawi, Youssef</i>	<b>Three-dimensional reconstruction of droplets interface topology and breakup timescales in turbulence</b> <i>Soldati, Alfredo</i>	<b>Three-dimensional waves in liquid film spread by rotation</b> <i>Kim, Dong Ju</i>	<b>Towards a unifying theory on flow separation in suspensions and shear-thinning fluids</b> <i>Rosi, Giuseppe Antonio</i>	<b>Trapping of a heavy flexible disc by a vortex</b> <i>Verhille, Gautier</i>	<b>Two-fluid compressible flows with multiresolution adaptive mesh refinement</b> <i>WU, Gen</i>	<b>Viscous lubrication force between spherical bubbles with time-dependent radii</b> <i>Pierson, Jean-Lou</i>		
<b>A13_04</b> (S06)  <b>Jörn Lothar Sesterhenn</b>	<b>Modelling intermittency in compressible jets with different nozzle exit conditions</b> <i>camussi, Roberto</i>	<b>Noise suppression of supersonic rectangular jet with bevelled nozzles</b> <i>Chen, Bao</i>	<b>Numerical study on flow dynamics of two jets impinging a catalytic sample</b> <i>Juhan, Thibaut</i>	<b>On the nature of the turbulent/non-turbulent interface of a swirling wake: application to a wind turbine surrogate</b> <i>Mazellier, Nicolas</i>	<b>Scale-Resolving Simulation of Multi-Component Nozzle Flows</b> <i>Oestringer, Philipp</i>	<b>Systematic High-speed Schlieren of compressible jet flows across varied Reynolds numbers</b> <i>García-Rico, Andrés</i>	<b>Self-similarity of quadrant contribution in turbulent wakes</b> <i>Xiong, Xue-Lu</i>	<b>Unsteady turbulent energy dissipation in an axisymmetric turbulent wake</b> <i>Obligado, Martin</i>		
<b>A16_03</b> (S04)  <b>Colm-cille Patrick Caulfield</b>	<b>On the Shear-Banding Driven Instabilities in pNIPAM Microgels</b> <i>Amini, Kasra</i>	<b>Sedimentation behaviors of particle clouds in viscoelastic fluids</b> <i>Horimoto, Yasufumi</i>	<b>Transition to turbulence in pipe flow for complex fluids</b> <i>Charles, Antoine</i>	<b>Steady flow of a shear-thinning liquid in a rectangular duct</b> <i>Barmak, Ilya</i>	<b>Particles alteration of elastoinertial transitions in viscoelastic Taylor-Couette flow.</b> <i>CARRE, Charles</i>	<b>Three-dimensional elastoviscoplastic instability of the flow around a confined cylinder</b> <i>Tammisola, Outi</i>	<b>Scaling analysis and self-similarity of elastoviscoplastic liquid threads</b> <i>Zakeri, Pourya</i>			
<b>A19_03</b> (S02)  <b>Janusz Piechna</b>	<b>Three-dimensional shock wave/boundary layer interactions on compression corners</b> <i>Soldati, Giulio</i>	<b>Experimental investigations of shock wave-boundary layer interaction over a Mach-4 compression ramp</b> <i>Zhao, Guoqin</i>	<b>Impact of density fluctuations on hypersonic shock-wave/turbulence interactions</b> <i>Di Renzo, Mario</i>	<b>Inflow turbulence generation for compressible turbulent boundary layers</b> <i>Li, Ruixin</i>	<b>Interaction of a first family oblique shock with an attached oblique shock</b> <i>Wang, Miaomiao</i>	<b>Role of forcing statistics in resolvent analysis of compressible turbulent boundary layers</b> <i>Fan, Yitong</i>	<b>Experimental investigation of the dynamics of a supersonic plug nozzle jet flow</b> <i>Wißmann, Paul</i>	<b>Spectral analysis of microramp-controlled shock wave/boundary layer interaction</b> <i>Della Posta, Giacomo</i>	<b>Turbulence Modeling Effects on Shock Wave/Boundary Layer Interaction Control: A Comparative Investigation</b> <i>Fratini, Marco</i>	

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<b>A25_02</b> (S01)  <b>Andreas Wierschem</b>	<b>Extension of the Integral Boundary Layer method to non-axisymmetric film flow on rotating substrates</b> <i>Kebinger, Simon</i>	<b>Falling liquid films: a new gas-induced short-wave instability</b> <i>Ishimura, Misa</i>	<b>Gas-liquid film flow through a slippery channel</b> <i>Vellingiri, Rajagopal</i>	<b>Hydrodynamic modeling of suspended and bedload transport in shallow water systems: A moment-based approach</b> <i>Parvin, Afroja</i>	<b>Hydrodynamics of short curtain coating</b> <i>Rabehi, Fateh</i>	<b>Instantaneous structures of dissolved oxygen in an air-water channel for a turbulent wind driven system</b> <i>Shankaran, Adharsh</i>	<b>Investigation of the effects of turbulent inflow conditions onto free surface deformation of a viscous liquid</b> <i>Mathis, Romain</i>	<b>Oscillations and Cavity Modes in the Circular Hydraulic Jump</b> <i>Goerlinger, Aurélien</i>	<b>Turbulence dynamics below and along a free surface</b> <i>Coletti, Filippo</i>	
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