



LYON, 1–4 September 2013
Ecole Normale Supérieure de Lyon

The European Turbulence
Conference gathers every two years
the community of scientists
involved in the study of turbulence,
from fundamental physics issues
to applied fluid mechanics.

Invited speakers

1. Axel Brandenburg (Nordita, Sweden)
2. Roberto Camussi (Roma Tre University, Italy)
3. François Daviaud (CEA, France)
4. Arne V. Johansson (KTH Stockholm, Sweden)
5. Rich Kerswell (Univ. of Bristol, U.K.)
6. Szymon Malinowski (Univ. of Warsaw, Poland)
7. Beverly J. McKeon (CalTech, Pasadena, U.S.A.)
8. Haitao Xu (MPI Goettingen, Germany)

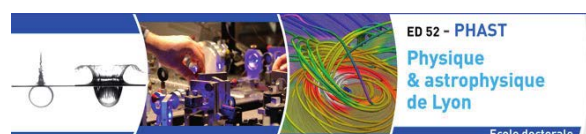
Program

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SPONSORS



Laboratory of Physics
of ENSde Lyon



SESSIONS

	Room 1	Room 2	Room 3	Room 4	Room 5
Sunday 9:00-9:55	Plenary session (Room 1)				
Sunday 10:00-11:00	LT	AT	CRYO	NNF	WT
Sunday 11:30-12:45	PT	BL	PF	MHD	GAF
Sunday 14:15-15:10	Plenary session (Room 1)				
Sunday 15:15-16:30	PT	BL	PF	MHD	GAF
Sunday 17:00-18:45	PT	CTL	CT	JET	2D
Monday 8:30-9:25	Plenary session (Room 1)				
Monday 9:30-10:45	PT	BL	IT	CONV	ROT
Monday 11:15-12:45	PT	BL	IT	CONV	FA
Monday 14:15-15:10	Plenary session (Room 1)				
Monday 15:15-16:15	LT	CTL	CRYO	MHD	FA
Monday 16:45-17:45	PT	ENG	RF	MHD	FA
Tuesday 8:30-9:25	Plenary session (Room 1)				
Tuesday 9:30-10:45	FA	PF	IT	CONV	ROT
Tuesday 11:15-12:45	FA	CTL	IT	CONV	GAF
Tuesday 14:15-15:10	Plenary session (Room 1)				
Tuesday 15:15-16:30	PT	BL	NUM	MHD	GAF
Tuesday 17:00-18:45	PT	BL	CT	NNF	TH
Wednesday 8:30-9:25	Plenary session (Room 1)				
Wednesday 9:30-10:45	TC	STR	CRYO	PSM	ROT
Wednesday 11:15-12:45	TC	ENG	JET	CONV	TH
Wednesday 14:15-15:10	Plenary session (Room 1)				
Wednesday 15:15-16:30	EXP	NUM	IT	PSM	WT
Wednesday 17:00-17:45	EXP	NUM	IT	STR	PF

Plenary sessions in Room 1 will be broadcasted in Room 1b.
Sessions in Room 3 will be broadcasted in Room 6.

SESSIONS

2D	2D turbulence
AT	Acoustics
BL	Boundary layers
CONV	Convection
CRYO	Cryogenics
CT	Compressible turbulence
CTL	Control
ENG	Engineering
EXP	Experiments
FA	Fundamental aspects
GAF	Geo/Astrophysics
IT	Instability & Transition
JET	Jets
LT	Lagrangian turbulence
MHD	Magnetohydrodynamics
NNF	Non-Newtonian fluids
NUM	Numerics
PF	Pipe flows
PSM	Passive scalar & Mixing
PT	Particles
RF	Reacting flows
ROT	Rotation
STR	Stratification
TC	Taylor-Couette
TH	Theory
WT	Wave turbulence

Sunday, September 1, 7:30-11:00

ETC14 Program

Saturday, 31 August 2013

17:00-19:30

Registration (Lobby ENS-Lyon)

Sunday, 1 September 2013

7:30-8:45

Registration (Lobby ENS-Lyon)

8:45-9:00

Opening (Room 1)

J.-F. Pinton

9:00-9:55

Plenary Session 1 - Rich Kerswell (Room 1)
Recurrent Flows Embedded In 2d Turbulence

10:00-11:00

SA.1-5

PLENARY SESSION 1

SA.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
SA.1 - LT1 (Lagrangian) O. Kamps <i>Lagrangian Single Particle Turbulent Statistics Through The Hilbert-huang Transform</i> Yongxiang Huang; Luca Biferale; Enrico Calzavara; Chao Sun; Federico Toschi	SA.2 - AT1 (Acoustics) N. Mordant <i>Noise Radiation From Instability Waves In Subsonic Coaxial Jets</i> Michael Gloor; Dominik Obrist; Leonhard Kleiser	SA.3 - CRYO1 (Cryogenic) C. Barenghi <i>Lagrangian Dynamics Of Solid Particles In Quantum Turbulence</i> Marco La Mantia; Daniel Duda; Miloš Rotter; Ladislav Skrbek	SA.4 - NNF1 (Non-Newtonian) D. Vincenzi <i>Dns Study Of The Elastic Turbulence In A 3d Parallel Plate Channel</i> Hongna Zhang; Tomoaki Kunugi; Fengchen Li	SA.5 - WT1 (Wave Turbulence) M. Bustamante <i>Secondary Instability Development In Breaking Lee Waves At Different Reynolds And Prandtl/Schmidt Numbers</i> Sergey N. Yakovenko; T. Glyn Thomas; Ian P. Castro
On The Comparison Of The Dynamics Of Particles Within Homogeneous Isotropic Turbulence And The Reynolds And Favre Filtered Flow Velocities. Paul Stegeman; Julio Sorie; Andrew Ooi	Acoustic - Induced Turbulence In Bubbles Frank Secretain; Andrew Pollard; Brian Milne	First Results Of The Shrek Experiment At Ultra-high Reynolds Number Berengere Dubrulle; SHREK Collaboration	Experimental Measurements Of Dilute Polymer Solutions In A Von Karman Swirling Flow Alexandre de Chaumont Quilry; Nicholas Ouellette	Numerical Investigation On Transition Of 2-d Faraday Waves Kentaro TAKAGI; Takeshi MATSUMOTO
Particle Transport In Weakly Turbulent Rayleigh-benard Convection Simon Schütz; Eberhard Bodenschatz	Interaction Of Acoustic Waves And Roughness Elements In A Three-dimensional Boundary Layer Nima Shahriari; Ardeshtir Hanifi; Dan Henningson	Hot-wire Measurements In A Liquid He Turbulent Inertial Jet: Intermittency In He II Davide Duri; Partho Dittmar; Jean-Paul Moro; Philippe Charvin; Yves Gagne; Christophe Baudet	Direct Numerical Simulation Of Viscoplastic-type Non-newtonian Fluid Flows In Stenosed Arteries Angel Carmona; Oriol Lehmkuhl; Carlos David Pérez-Segarra; Asensi Oliva	Complete Classification Of Discrete Resonant Rossby/drift Wave Triads On Periodic Domains Miguel Bustamante; Umar Hayat
Lagrangian Statistics Of Particles In Rotating Turbulent Convection Herman Clercx; Prasad Perlekar; Lorenzo Del Castello; Federico Toschi	Synchronized Vortex Shedding And Sound Generation In A Corrugated Pipe Serena Russo; Flavio Giannetti; Paolo Luchini; David Fabre	Motion Of Toroidal Bundles Of Vortex Rings Carlo F. Barenghi; Daniel H. Wadco; Andrew W. Beggaley	Elastic Energy Transfer By Flexible Polymers In Fluid Turbulence Eberhard Bodenschatz; Heng-Dong Xi; Haitao Xu	Inertial Waves And Wave Excitation Mechanisms In Annular Cavities: Simulations, Experiments And Theory Marten Klein; Ion Dan Borda; Christoph Egbers; Abouzar Ghasemi V.; Uwe Harlander; Michael V. Kurgansky; Eberhard Schaller; Torsten Seelig; Andreas Will

11:00-11:30	COFFEE BREAK				
	Coffee break				
11:30-12:45	SB.1-5				
	Room 1	Room 2	Room 3	Room 4	Room 5
	SB.1 - PT1 (Particles) R. Monchaux	SB.2. - BL1 (Boundary Layers) M. Schulz	SB.3 - PF1 (Pipe Flows) B. Hof	SB.4 - MHD1 (MHD) N. Pilihon	SB.5 - GAF1 (Geo-Astro) B. Dubrulle
	<i>Interaction Between Cloud Droplet s And Turbulence</i> Toshiyuki Gotoh; Yuuya Kozaki; Yuki Suzuki; Takeshi Watanabe	<i>Nonlinear Vortex Structures In Boundary Layer Flow</i> Hakan Wedin; Giuseppe Zampogna; Alessandro Bottaro	<i>Turbulent-laminar Bands In Plane Poiseuille Flow</i> Laurette Tuckerman	<i>On The Four-fifths Law In Magne- tohydrodynamic Turbulence</i> Katsunori Yoshimatsu	<i>Lagrangian Reconstructions Of Sur- face Ocean Turbulence</i> Stefano Berti; Guillaume Lapeyre
	<i>Modeling Of Turbulence Attenua- tion In Particle- Or Droplet-laden Fl ows</i> Daniel Meyer	<i>A Nested-les Wall-modeling Ap- proach For High Reynolds Number Wall Flows</i> Yifeng Tang; Rayhaneh Akhavan	<i>Direct Numerical Simulation Of Tur- bulent Pipe Flow At High Reynolds Numbers.</i> Bendiks Boersma	<i>Large Scale Magnetic Fields In Mhd Turbulence</i> Alexandros Alexakis	<i>Statistical Mechanics Of Shallow Water Equations</i> Adrien LICARI; Max POTTERS; Antoine VENAILLE; Freddy BOUCHET
	<i>Dynamics Of Homogeneous Shear Turbulence Laden With Finite-size Particles</i> Mitsuru Tanaka; Takayuki Wazaki	<i>Quasi-steady Modulation Of Near- wall Turbulence</i> Sergei Chernyshenko; Ivan Marusic; Romain Mathis	<i>Turbulence And Cyclic Bursts In Rotating Channel Flow</i> Geert Brethouwer; Liang Wei; Philipp Schlat- ter; Arne V. Johansson	<i>An Exact Relation For Compress- ible Mhd Turbulence</i> Supratik BANERJEE; Sébastien GALTIER	<i>Experimental Investigation Of En- trainment Into A Gravity Current</i> Dominik Krug; Markus Holzner; Beat Lüthi; Marc Wolf; Wolfgang Kinzelbach; Arkady Tsinober
	<i>Interfaces Of Long Bubbles In Hor- izontal Turbulent Slug Flow</i> Luís Matamoros; Juliana Loureiro; Abila Freire	<i>Continuous Spectra And Entrain- ment Of Free-stream Vortical Dis- turbances In Asymptotic Suction B oundary Layer</i> Xuesong Wu; Ming Dong	<i>Flow Around Circular Cylinder In A Pipe</i> Venugopal Arumuru; Amit Agrawal; Prabhu S. V	<i>Effects Of Mhd Turbulence On Mea- n Magnetic Pressure And Forma- tion Of Magnetic Structures</i> Igor Rogachevskii; Axel Brandenburg; Koen Kemel; Nathan Kleeorin	<i>Stochastic Averaging And Jet For- mation In Turbulent Planetary At- mospheres</i> Freddy Bouchet; Cesare Nardini; Tomas Tangarife
12:45-14:15	LUNCH				
	Lunch (Lunch Hall)				
14:15-15:10	PLENARY SESSION 2				
	Plenary Session 2 - Szymon Malinowski (Room 1) Turbulent Entrainment And Mixing In Clouds				

SC.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
SC.1 - PT2 (Particles) J. Bec	SC.2 - BL2 (Boundary Layers) J. Westerweel	SC.3 - PF2 (Pipe Flows) G. Brethouwer	SC.4 - MHD2 (MHD) W. Bos	SC.5 - GAF2 (Geo-Astro) A. Alexakis
<i>Identifying Particle Clusters In Turbulent Flow</i> Christopher Nilsen; Helge Andersson	<i>Skin-friction Measurements In The Transitional Flow Regime</i> Michael Schep; Karen Flack	<i>Experimental Investigation Of The Influence Of Curvature On Transition To Turbulence In A Pipe</i> Jakob Kühnen; Michael Schwiegel; Björn Hof; Hendrik C. Kuhlmann	<i>A Self-consistent Model For Turbulent Magnetic Reconnection</i> Nobumitsu Yokoi; Katsuaki Higashimori; Masahiro Hoshino	<i>Random Transitions In Stochastic Turbulent Flows</i> Freddy Bouchet; Jason Laurie; Eric Simonnet; Oleg ZaboronSKI
<i>Accumulation Of Motile Microorganisms In Turbulence</i> Caijuan Zhan; Gaetano Sardina; Enkeleida Lushi; Luca Brandt	<i>Experimental Investigation Of The Near And Far Field Structure Of High Reynolds Number Turbulent Boundary Layers</i> Nicolas Buchmann; Callum Atkinson; Charitha de Silva; Nicholas Hutchins; Ivan Marusic; Julio Soria	<i>From Localized Periodic Orbits To Transients In Pipe Flow</i> Marc Avila; Fernando Mellibovsky; Nicolas Rodas; Björn Hof	<i>Mhd Turbulence At High Interaction Parameter</i> Sophie MIRALLES; Gaudier VERHILLE; Nicolas PUJON; Jean-Francois PINTON	<i>Reproduction Of 2d Chaotic Zonal Flow In A Rotating Sphere</i> Eichi Sasaki; Shin-ichi Takehiro; Michio Yamada
<i>Clustering Of Gyrotactic Microorganisms In Turbulent Flows</i> Guido Boffetta; Michael Barry; Massimo Cencini; Eric Climent; Filippo De Lillo; William Durham; Roman Stocker	<i>Exploring The Connection Between Interfacial Bulging At The Edge Of The Turbulent Boundary Layer And Large-scale Motions Near The Wall</i> Nicholas Hutchins; Jason Monty	<i>Localized Periodic Orbits In Plane Poiseuille Flow</i> Stefan Zammert; Bruno Eckhardt	<i>Energy Spectrum For Quasi-static Mhd For High Interaction Parameters</i> K. Sandeep Reddy; Mahendra Kumar Verma	<i>A New Formulation Of The Spectral Energy Budget Of The Atmosphere, With Application To Two High-resolution General Circulation Models</i> Pierre Augier
<i>Gyrotactic Clustering From Turbulent Acceleration</i> Massimo Cencini	<i>Effects Of Hot-wire Measurement In Wall-bounded Flows Studied Via Direct Numerical Simulation</i> Juan A. Sillero; Javier Jimenez	<i>Relaminarising Fully Turbulent Pipe Flow</i> Baofang Song; Marc Avila; Björn Hof	<i>Fluid And Kinetic Modelling Of The Magnetized Kelvin-helmholtz Instability</i> Pierre Henri; Francesco Caflano; Stefano Markidis; Matteo Faganello; Giovanni Lapenta; Francesco Pegoraro	<i>Jet Formation By Potential Vorticity Mixing At Large And Small Scales</i> Richard Scott
<i>Effects Of Polymer Additives On Turbophoresis In A Turbulent Channel Flow</i> Gaetano Sardina; Arash Nowbahar; Francesco Picano; Luca Brandt	<i>Spanwise Measurements Of Turbulence Structure Over Permeable Walls</i> Yuka Nakagawa; Masayuki Kaneda; Kazuhiko Suga	<i>Localised Exact Solutions Of Pipe Flow</i> Fernando Mellibovsky; Marc Avila; Roland Nicosias; Hof Björn	<i>The Three Dimensionalities Of Mhd Turbulence</i> Alban Pothérat; Klein Rico	<i>Stochastic Decomposition Of Atmospheric Turbulence</i> Alan Morales; Matthias Wächter; Joachim Peinke
COFFEE BREAK				
Coffee Break				

SD.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
SD.1 - PT3 (Particles) H. Homann Sweep-stick Mechanisms Of Inertial Particles In Turbulence: A Comparison Of Voronoï Analysis In Dns And Experiments Martin Obligado; Alain Cartellier; Pablo Mininni; Mickael Bourgoïn	SD.2 - CTL1 (Control) B. McKeon Cooperative Drag Reducing Effect Of Longitudinal Riblets And Spanwise Wall Oscillations. Nikolay Nikitin; Ivan Vodopianov	SD.3 - CT1 (Compressible) P. Frick Studies Of Turbulent Mixing In Shock-driven Richtmyer-meshkov Instability Daniel Meiron; Manuel Lombardini; Dale Pullin	SD.4 - JET1 (Jets) L. Danaila Numerical Study Of A Quasi-two-dimensional Confined Turbulent Jet Rustam Mulyadzharov; Boris Ilyushin; Muhamed Hadziabdic; Kemal Hanjalic	SD.5 - 2D (2D turbulence) F. Bouchet Turbulent Coherent Structures Driven In Parametrically Excited Surface Ripples Michael Shats; Hua Xia; Nicolas Francois; Horst Purzmann
Particle Clustering In Radiation induced Turbulence Rémi Zamansky; Filippo Coletti; Marc Massot; Ali Mari	Universal Friction Law For Turbulent Boundary Layers With Wall Suction Igor Vigdorovich	Exact Kolmogorov Law For Compressible Turbulence Sebastien Galtier; Supratik Banerjee	The Turbulent/non-turbulent Interface And Viscous Superlayer In Turbulent Planar Jets Carlos B. da Silva; Rodrigo R. Taveira	Hilbert-based Vorticity Statistics In Two-dimensional Turbulence Huanshu Tan; Yongxiang Huang; Jianping Meng
Disentangled Effects Of The Reynolds And Stokes Numbers On The Clustering Of Heavy Particles In Turbulence Lionel Fabbian; Romain Volk; Jean-François Pinton; Mickael Bourgoïn	Experimental Investigation Of Drag Reduction Effect In Wall Turbulence Over Travelingwave-like Rubber Sheet Yuho Ishiwata; Hiroya Mamori; Kaoru Iwamoto; Akira Murata	Reshock Of Self-similar Multimode Richtmyer-meshkov Instability At High Atwood Number In Heavy-light And Light-heavy Configurations Mike Probyn; Ben Thomber	Analysis Of Dynamic-controlled Round Jet Using Pod And Dmd Koichi TSUJIMOTO; Noritaka SHIBATA; Toshihiko SHAKOUCHI; Toshitake ANDO	Faraday Surface Ripple Forced 2d Turbulence Nicolas FRANCOIS; Hua XIA; Michael SHATS
Influence Of Preferential Concentration On The Settling Of Heavy Particles In Homogeneous Turbulence Romain Monchaux; Anne Dejoan	Effectiveness Of Spanwise Forcing For Turbulent Drag Reduction At Higher Re Davide Gatti; Maurizio Quadrio; Cameron Tropea; Bettina Frohnapefel	Study On The Interaction Between Low-mach-number Grid Turbulence And Spherical Shock Wave Takuya Kitamura; Kouji Nagata; Yasuhiko Sakai; Akihiro Sasoh; Osamu Terashima	Incomplete Similarity In A Plane Turbulent Wall Jet On A Rough Surface ZhuJun Tang; Noorallah Rostamy; Donald J Bergstrom; James D Bugg; David Sumner	Experimental Investigation Of Large Scale Circulation Generated Over A 2d Turbulent Flow Johann Herault; Francois Petrelis
Settling Velocity Of Small Particles In High-resolution Homogeneous Isotropic Turbulence Bogdan Rosa; Orlando Ayala; Hossein Parshani; Lian-Ping Wang	Wall Turbulence Control By Spanwise Traveling Waves Wenxuan Xie; Maurizio Quadrio	The Influence Of The Fluid Acceleration Term On The Simulation Of A Particle-laden Compressible Jet With Shock Waves Flavia Cavalcanti Miranda; Arne Helmrich; Jörn Sesterhenn	Liquid Jet Simulation Using One dimensional Turbulence Falko Schulz; Christoph Glawe; Helko Schmidt; Alan Kerstein	On Scalings In Forced 2d Turbulence Jérôme Fontane; Richard K. Scott; David G. Dritschel
Experimental Study Of Clustering Of Floaters On The Free Surface Of A Turbulent Flow Pablo Gutierrez; Sebastien Aumaitre	Reactive Control Of Spatially Developing Turbulent Boundary Layer Alexander Stroh; Yosuke Hasegawa; Bettina Frohnapefel	Dns Of Boundary Layer Transition At Mach 6 Dmitry Khotyanovsky; Alexey Kudryavtsev	Direct Numerical Simulation Of The Heat Transfer Of An Impinging Jet Thibault Daray; Véronique Fortuné; Eric Lamballais; Laurent-Emmanuel Brizzi	Fokker-planck Description Of The Inverse Cascade In Two-dimensional Turbulence Oliver Kamps; Michel Voßkuhle
		Energy Cascade And Scaling In Superpersonic Turbulence Alexei Kritsuk; Rick Wagner; Michael Norman	Direct Simulation Of Turbulent Entrainment In A Temporal Plane Jet Maarten van Reeuwijk; Markus Holzner	
WELCOME COCKTAIL				
Welcome Cocktail (Lunch Hall)				

PLENARY SESSION 3					
Plenary Session 3 - François Daviaud (Room 1)					
MA.1-5					
Room 1	Room 2	Room 3	Room 4	Room 5	
MA.1 - PT4 (Partides) R. Zamanski	MA.2 - BL3 (Boundary Layers) Y. Hasegawa	MA.3 - IT1 (Instability & Transition) Y. Duguet	MA.4 - CONV1 (Convection) M. Creysseels	MA.5 - ROT1 (Rotation) P. Cortet	
<i>Gravity Effects On Particle Dynamics In Wall Turbulence</i> Helge I. Andersson; Christopher Nilsen; Lihao Zhao	<i>Turbulent Spots In Channel Flow: From Transient Growth To Self-sustainability</i> Grégoire Lemoult; Jean-Luc Aider; José Eduardo Westfald	<i>Transition To Turbulence In Oscillatory Superflows</i> Risto Hänninen; Michael Niemetz; Wilfried Schoepe	<i>On The Motion Of Large-scale Circulations In Mixed Convection</i> Daniel Schmelting; Johannes Bosbach; Claus Wagner	<i>Localized Unstable Modes In A Precessing Sphere</i> Shigeo Kida	
<i>Re-suspension Of Particles In An Oscillating Grid Turbulent Flow</i> Hadar Traugott; Alex Liberson	<i>Characteristics Of The Interfaces In A Turbulent Boundary Layer</i> Jerke Eisma; Gerrit Elsinga; Jerry Westerweel	<i>Pipe Flow And Ultra-long Fiber Laser</i> Gregory Falkovich	<i>Lagrangian Measurements Of Temperature And Velocity In Turbulent Thermal Convection</i> Olivier Liot; Fanny Seychelles; Julien Salort; Eleonore Rusaouen; Marius Tanase; Francesca Chilla; Bernard Castaing; Yoann Gasteuil; Jean-François Pinton	<i>The Unsteady Flow Within A Rotating Torus</i> Jim Denier; Richard Clarke; Hewitt Richard; Andrew Hazel	
<i>Experimental Validation Of A Constant Surface Shear Stress In Particle Saltation Layers</i> Benjamin Walter; Stefan Horender; Christian Vogel; Michael Lehning	<i>The Significance Of Hairpin Vortices In Turbulent Boundary Layers</i> Georg Eitel-Amor; Ramis Orlu; Philipp Schlatter	<i>Optimal Amplification Of Streamwise Streaks In Plane Jets And Their Stabilizing Effect On The Inflectional Instability</i> Gerardo Del Guercio; Carlo Cossu; Gregory Pujals	<i>The Large-scale Circulation In Turbulent Rayleigh-Bénard Convection In An Aspect Ratio 1 Cell At Large Rayleigh Numbers</i> Dennis Paulus Maria van Gils; Xiaozhou He; Guenter Ahlers; Eberhard Bodenschatz	<i>Laboratory Simulation Of Zonation In Rotating Flows</i> Stefania Espa; Gabriella Di Nitto	
<i>Bringing Clouds Into The Lab</i> Altug Yavuz; Rudie Kurnen; Herman Clercx; Gerdaan Heijst	<i>Flow Visualization Of Hairpin Vortices In A Mach 3.0 Flat-plate Boundary Layer</i> Lin He; Shih-Yi; Zhi Chen; Yangzhu Zhu	<i>Subcritical Transition To Turbulence: A Model Inspired From The Physics Of Glasses</i> Olivier Dauchot; Eric Bertin	<i>Measurement Of The Temperature Field In A Rayleigh-Bénard Turbulent Convection Cell By Laser Induced Fluorescence</i> Denis Furfischling; Guillaume Castanet; Nicolas Rimbart	<i>Symmetry-breaking Flows In Precessing Spherical Containers</i> Caroline Nore; Rainer Hollerbach; Francky Luddens; Jacques Leorat; Philippe Marti; Stijn Vantieghem	
<i>Studies Of Gas-particle Interaction: Implications For The Streaming Instability In Protoplanetary Disks</i> Holly Capelo; Haitao Xu; Michiel Lambrechts; Anders Johansen; Eberhard Bodenschatz	<i>Imaging Of Micro-ramps In Supersonic Flow And The Effect On Flow Over Double Wedge</i> Zhang Qinghui; Yi Shih; He Lin; Chen Zhi; Zhu Yangzhu	<i>The Complex Unsteady Flow Within A Fluid Filled Annulus And Its Transition To Turbulence</i> Sophie Calabretto; Jim Denier; Trent Maltner	<i>Numerical Investigation Of Flow Reversals In A Flat Rayleigh-Bénard Cell</i> Anne Sergent; Bérengère Podvin	<i>Turbulence, Interfacial Waves And Vortex Column Formation In A Rotating Fluid</i> Matias Duran Matute; Jan-Bert Flor; Fabien Godefert	
COFFEE BREAK					
Coffee Break					

11:15-12:45

MB.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
MB.1 - PT5 (Partides) L. Brandt	MB.2 - BL4 (Boundary Layers) A. Busse	MB.3 - IT2 (Instability & Transition) M. Rossi	MB.4 - CONV2 (Convection) J. Salort	MB.5 - FA1 (Fundamental Aspects) F. Moisy
<i>Particles In Homogeneous Shear Turbulence</i> Michel van Hinsberg; Herman Clercx; Prasad Perlekar; Federico Toschi	<i>On The Validity Of The Law Of The Wall</i> Gary N Coleman; Philippe R. Spalart	<i>Transition To Turbulence In 4he Due To Mechanical Oscillators</i> David Schmoranzler; Marjol Delfoort; Sebastian Dufresnes; Eddy Collin; Henri Godfrin; Ladislav Skrbek	<i>Mathematical Analysis Of Heat Transport In Turbulent Convection</i> Charles R. Doering	<i>Explicit Formula Of Energy-conserving, Fokker-planck-type Collision Term For Single-species Point Vortex System</i> Yuichi Yatsuyanagi; Tadatsugu Hatori
<i>Tumbling Rates In Turbulent And Random Flows</i> Kristian Gustavsson; Jonas Einarsson; Bernhard Mehlig	<i>Energy Growth In Transient Channel Flow</i> Shuisheng He; Mehdi Seddighi	<i>Non Modal Subcritical Transition Of Channel Entry Flow</i> Marc BUFFAT; Lionel Le Penven; Anne Cadlou	<i>Temperature And Velocity Gradients In Turbulent Convection</i> Joerg Schumacher; Janet Scheel; Mohammad Emran	<i>New Turbulent Scaling Laws From The Multi-point Correlation Equations</i> Andreas Rosteck; Martin Oberlack
<i>Effect Of Flow Anisotropy On Dispersion And Distribution Of Particles</i> Armann Gylfason; Chung-min Lee; Prasad Perlekar; Federico Toschi	<i>Dns Of Channel Flow With Two-scale Surface Roughness On One Wall</i> Hiroki Suzuki; Richard Perkins	<i>Transitional Convective Structures In A Liquid Layer With A Drift Flow</i> Galina Rybushkina; Vladimir Reutov	<i>Temperature And Velocity Fluctuations In Forced Stably Stratified And Convective Turbulent Flows: Experiments And Theory</i> Alexander Eidelman; Tov Elperin; Igor Gluzman; Nathan Kleonin; Igor Rogachevskii	<i>Length Scale To Determine The Rate Of Energy Dissipation In Turbulence</i> Hideaki Mouri
<i>Relative Velocities Of Inertial Particles At The Dissipative Scales Of Turbulence</i> Ewe-Wei Saw; Gregory P. Bewley; Samiridhi S. Ray; Holger Homann; Jeremie Bec; Eberhard Bodenschatz	<i>Higher Order Moments Of Passive And Reacting Scalars And Their Gradients In Turbulent Wall-jets</i> Zeinab Pouransari; Luca Biferale; Arne Johansson	<i>Interpretation Of The Mechanism Responsible For The Persistence Of A Laminar Region In Turbulent Duct Flow</i> Gerti Daschiel; Bettina Frohnapfel; Jovan Jovanovic	<i>Available Potential Energy In Rayleigh-benard Convection</i> Graham Hughes; Bishakhata Gayen; Ross Griffiths	<i>New Conservation Laws For Helically Symmetric Flows And Their Importance For Turbulence Theory</i> Olga Kelbin; Alexei Cheviakov; Martin Oberlack; Ivan Delbende
<i>Turbulent Dispersion Of Heavy Droplets</i> Humberto Bocanegra Evans; Nico Dam; Willem van de Water	<i>New Mean Velocity Scaling Laws For Turbulent Poiseuille Flow With Wall Transpiration</i> Victor Avsarkisov; Martin Oberlack; Sergio Hoyas; George Khujadze	<i>Mean Field Model For Turbulence Transition In Plane Poiseuille Flow</i> Michael Rath; Bruno Eckhardt	<i>On The Applicability Of Falkner--skan Boundary Layer Equations To Turbulent Thermal Convection</i> Olga Shishkine; Susanne Horn; Sebastian Wagner	<i>Estimation Of Turbulence-development By A Multifractal Theory</i> Toshiko Arimitsu; Naoko Arimitsu; Kohel Takechi; Yukio Kaneda; Takashi Ishihara
<i>Relative Velocities Of Inertial Particles In Random Flows</i> Kristian Gustavsson; Bernhard Mehlig	<i>Linear Dynamics Of A Boundary Layer Flow Over A Cylindrical Rugosity</i> Jean-Christophe Loiseau; Jean-Christophe Robinet; Emmanuel Lerche	<i>Higher Harmonic Resonance In Laterally Heated Flow (lhrf) With Poiseuille Flow Component (pfc)</i> Takeshi Akinaga; Tomoaki Itano; Kaoru Fujimura; Sotos Generalis	<i>Description Of Turbulent Rayleigh-benard Convection By Pdf Methods Exhibits Limit Cycle Behavior</i> Johannes Lullf	<i>On Relationship Between Instantaneous And Statistical Properties Of The Deterministic Turbulence</i> Vladimir Borodulin; Yuri Kadanov; Dmitry Mischenko

12:45-14:15

LUNCH

Lunch (Lunch Hall)

14:15-15:10

PLENARY SESSION 4

Plenary Session 4 - Haitao Xu (Room 1)
Lagrangian Single-particle Statistics Of Fluid Turbulence

MC.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
MC.1 - LT2 (Lagrangian) L. Biferale	MC.2 - CTL2 (Control) D. Fabre	MC.3 - CRYO2 (Cyogenics) L. Skrbek	MC.4 - MHD3 (MHD) G. Verhille	MC.5 - FA2 (Fundamental Aspects) K. Schneider
<i>Experimental Observation Of A Single Lagrangian Scale Of Particle Dispersion In Developed Two-dimensional Turbulence</i> Hua Xia; Nicolas Francois; Horst Punzmann; Michael Stals	<i>Steady Suction And Pulsed Blowing For Effective Bluff-body Flow Control</i> Avi Seifert; Tom Shtendel	<i>Systematics Of Turbulence In The Dissipationless, Unforced, 2d, Fourier-truncated Gross-pitaevskii Equation</i> Rahul Pandit; Vishwanath Shukla; Marc Brachet	<i>The Role Of Temporal Coherence In Small And Large-scale Dynamics At High Rm</i> Steven Tobias; Fausto Cattaneo	<i>Finite-time Blow-up Problem And The Maximum Growth Of Palinstrophy</i> Bartosz Protas; Diego Ayala
<i>Multiparticle Dispersion In Homogeneous Isotropic Turbulence</i> Benjamin Devenish	<i>Feed-forward Control In An Experimental Channel Flow</i> Fabien JUILLET; Beverley McKeon; Peter Schmid	<i>Spectra In Gross-pitaevskii Turbulence Within A Spectral Closure Approximation</i> Kyo Yoshida; Toshihiko Arimitsu	<i>Global Bifurcations To Subcritical Turbulent Magnetorotational Dynamo Action In Keplerian Shear Flow</i> Francois Rincon; Antoine Riols; Carlo Cossu; Geoffroy Lesur; Pierre-Yves Longaretti ; Gordon Ogilvie; Johann Herault	<i>Dynamic Geometrical Analysis Of High-enstrophy Structures In Isotropic Turbulence</i> Yuji Hattori; Takashi Ishihara
<i>Deformation Of Tetrahedra In Turbulence</i> Jennifer Mutschall; Haitao Xu; Alain Pumir; Eberhard Bodenschatz	<i>Experimental Study Of Open- And Closed-loop Control Of A Turbulent Mixing Layer</i> Vladimir Parezanovic; Jean-Charles Laureate ; Carine Fournier; Joel Delville; Laurent Cordier; Bernd R. Noack	<i>Energy Spectra And Characteristic Scales Of Quantum Turbulence Investigated By Numerical Simulations Of The Two-fluid Model</i> Philippe-E Roche; Emmanuel Lévéque	<i>Scaling Laws For Convective Dynamics</i> Krzysztof Mizerski; Chris Jones	<i>Statistics Of The Velocity Gradient Tensor Perceived By A Set Of Four Tracer Particles In Homogeneous Rotating Turbulence</i> Aurore Naso; Fabien S. Godeferd
<i>Statistics Of Velocity Differences Between Lagrangian Tracers In A Developed Turbulent Flow</i> Jeremie Bec; Rehab Bitane; Holger Homann	<i>Open-loop Control Of An Axisymmetric Turbulent Wake Using High-frequency Periodic Jet Blowing</i> Anthony Oxlade; Jonathan Morrison	<i>Nonlocal Model Of Superfluid Turbulence</i> Lidia Saluto; David Jou; Maria Stella Mongioli	<i>Turbulence In Geodynamo Simulations</i> Nathanael Schaeffer; Alexandre Fournier; Julien Aubert	<i>Nonlocal Pressure Contributions To The Small-scale Statistics Of Homogeneous Isotropic Turbulence</i> Michael Wilczek; Charles Meneveau

COFFEE BREAK

Coffee Break

16:45-17:45

MD.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
MD.1 - PT6 (Partides) S. Chibbaro	MD.2 - ENG1 (Engineering) D. Tordella	MD.3 - RF (Reacting Flows) M. Gorokhovski	MD.4 - MHD4 (MHD) A. Pothérat	MD.5 - FA3 (Fundamental Aspects) B. Castaing
Stokes Drift For Inertial Particles Transported By Water Waves Francesco Santamaria; Guido Boffetta; Marco Martins Alfonso; Miguel Onorato; Andrea Mazzino	The Structure Of The Near Wall Sublayer In Rotor/stator Non-isothermal Flows Kamil Kielczewski; Ewa Tuliscka-Sznitko	Experimental Investigation Of Eddy Diffusivity In A Reactive Liquid Jet Tomooaki Watanabe; Yasuhiko Sakai; Kouji Nagata; Osamu Terashima; Yasumasa Ito	Hall Effects On Energy Transfer Of Isotropic Mhd Turbulence Hideaki Mura; Kelsuke Araki	Generation Mechanism Of Hierarchy Of Coherent Vortices In Turbulence Susumu Goto; Gentia Kawahara
The Slip Direction Of Large-size Particles In Turbulent Flows Mamadou Cisse; Holger Homann; Jérémie Bec	The Comparison Of Numerical And Experimental Investigation Of Flow Inside Reversing Chamber Robert Klosowski; Jaroslaw Bartoszewicz	Effective Rates In Dilute Reaction-advection Systems Giorgio Krstulovic	Large Scale Forcing Of A Turbulent Plasma Dynamo Jorge Morales; Wouter Bos; Fabien Godeferd; Nicolas Pilihon	Vorticity Moments For Thin And Hollow Anti-parallel Vortex Tube Robert Kerr
Memory Effects In The Advection Of Inertial Particles Anton Daltchev; Tamás Tél	Turbulent Flow Field Measurements In A Fan-stirred Combustion Vessel Bénédicte Galmiche; Fabien Halter; Nicolas Mazellier; Fabrice Foucher	Curvature And Velocity Strain Dependencies Of Burning Speed In A Turbulent Premixed Jet Flame Guido Trolani; Francesco Battista; Francesco Picano; Carlo Massimo Cascola	Developing Of The Ionospheric Plasma Turbulence Over The Epicenters Of The Strong Earthquakes. Discussion Of The Results Of The Demeter Satellite Malgorzata Koscielna; Jan Bleck; Michel Parrot; Roman Wronowski	Direct Vorticity Measurement In Turbulence Huixuan Wu; Haitao Xu; Eberhard Bodenschatz
Effect Of Turbulent Fluctuations On The Drag Force And Boundary Layer Of A Towed Sphere Holger Homann; Jérémie Bec; Rainer Grauer	Large-eddy Simulation Of Under-expanded Natural Gas Jets Ville Vuorinen; Christophe Duwig; Ossi Kaario; Martti Larmi; Bendiks Boersma	Turbulence-combustion Interaction In H2-co/air Bunsen Flame Francesco Battista; Francesco Picano; Guido Trolani; Carlo Massimo Cascola	Effect Of Subgrid Scale Turbulence On Particle Acceleration In Solar Wind Turbulence Bernard Knaepen; Lapo Bettarini	On Transition Via Transient Growth In Couette Flow Michael Karp; Jacob Cohen

17:45-18:15

Free time

18:15-20:00

Guided walking tour of historical Lyon

Visit of the old city of Lyon. Departure from the conference site. The end of the tour will take you to the "Palais du Commerce" where the gala of the conference will take place.

20:00-23:00

GALA**Gala** (Palais du Commerce)

The ETC14 Gala will be held at :
Palais du Commerce
place de la Bourse LYON 69002

PLENARY SESSION 5				
Plenary Session 5 - Beverly McKeon (Room 1) <i>A Systems Approach To Wall Turbulence</i>				
TA.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
TA.1 - FA4 (Fundamental Aspects) L. Moriconi	TA.2 - PF3 (Pipe Flows) L. Tuckerman	TA.3 - IT3 (Instability & Transition) B. Pier	TA.4 - CONV3 (Convection) D. Furfischling	TA.5 - ROT2 (Rotation) C. Nore
<i>Thin Shear Layers In High Reynolds Number Turbulence - Dns Results</i> Takashi Ishihara; Julian Hunt; Yukio Kaneda	<i>Patterned Turbulence And Relaminarization In Mhd Pipe And Duct Flows</i> Dmitry Krasnov; Oleg Zikanov; Thomas Boeck	<i>Camassa-holm Type Equations And Vortices In Axisymmetric Poiseuille Pipe Flows</i> Francesco Fedele; Denys Dutykh	<i>Numerical Simulations Of Rayleigh-benard Systems With Non-homogeneous Temperature Sources</i> Patrizio Ripesi; Luca Biferale; Mauro Sbragaglia; Achim Wirth	<i>The Effects Of System Rotation On Kinematics Of Vortical Structure In Turbulent Channel Flow</i> Oakli Iida
<i>Thin Shear Layers In High Reynolds Number Turbulence - A Coherent-structure Model</i> Julian Hunt; Takashi Ishihara; Yukio Kaneda	<i>Turbulent Pipe Flow: New Dns Data And Large-scale Structures</i> George El Khoury; Philipp Schlatter; Geert Brethouwer; Arne V. Johansson	<i>Secondary Flow Formation Over Localized Heat Source</i> Andrey Sukhanovskiy; Anna Evgrafova; Elena Popova	<i>Measurement Of The Local Convective Heat Flux In Thermally-driven Turbulence With Rough Surfaces</i> Yi-Chao Xie; Rui Ni; Xiao-Ming Li; Ping Wei; Ke-Qing Xia	<i>Dns Of Inhomogeneous Turbulence Under Rotation</i> Avishek Ranjan; Peter A Davidson
<i>Properties Of The Curvature Tensor Of Streamtubes In Turbulent Flows</i> Jonas Boshung; Charles Meneveau; Norbert Peters	<i>Coherent Motions In Turbulent Flows Through Curved Pipes</i> Philipp Schlatter; Azad Noorani; Athanasia Kalpakli; Ramis Onlu	<i>Experimental Investigation Of Gap Instability And Gap Vortex Street Development In An Eccentric Annular Channel</i> George Choueiri; Stavros Tavoularis	<i>Towards The Numerical Investigation Of Rough Surfaces In Quasi Two-dimensional Rayleigh-benard Convection</i> Sebastian Wagner; Olga Shishkina	<i>Restoring Isotropic Universality In Freely Decaying Rotating Turbulence</i> DELACHE ALEXANDRE; CAMBON CLAUDE; GODEFERD Fabien
<i>The Effects Of Pressure Hessian On Fluid Deformation</i> Yi Li	<i>Scalings Of The Outer Energy Source Of Wall-turbulence</i> Andrea Cimarelli; Elisabetta De Angelis; Philipp Schlatter; Geert Brethouwer; Alessandro Talamelli; Carlo Massimo Casciola	<i>Bifurcations From Double-layered Streamwise-independent Vortex Flow In Rotating Plane Couette Flow</i> Masato NAGATA	<i>The Effect Of Velocity Boundary Conditions On 2d Rayleigh-Benard Turbulence</i> Rodolfo Ostilla Monico; Erwin P. van der Poel; Roberto Verzicco; Detlef Lohse	<i>Direct Numerical Investigation Of The Stably-stratified Ekman Layer</i> Enrico Deusebio; Philipp Schlatter; Geert Brethouwer; Erik Lindborg
<i>Comparison Between Prandtl, Navier-stokes And Euler Solutions For A Vortex Dipole Impinging On A Wall</i> Romain Nguyen van yen; Matthias Waldmann; Marie Farge; Kai Schneider; Rupert Klein	<i>The Evolution Of Transitional Flow Structures Along A 3200 D Pipe In The Decay And Growth Regimes</i> Özgür Ertunc; Jens Krauss; Hermann Lienhart; Hannes Schweiger; Horst Weber; Antonio Delgado	<i>Stabilizing Effect Of Longitudinal Wall Oscillation On 2d Or 3d Wave In The Plane Poiseuille Flow</i> Takashi Atobe	<i>Roughness-enhanced Heat-flux In Turbulent Thermal Convection</i> Julien Salort; Éléonore Rusouën; Olivier Liot; Jean-Christophe Tisserand; Mathieu Creysse; Bernard Castaing; Francesca Chilla	<i>Scale-dependent Statistics Of Lagrangian And Eulerian Acceleration In Rotating And Sheared Homogeneous Turbulence</i> Frank G. Jacobitz; Kai Schneider; Wouter Bos; Marie Farge

11:15-12:45

TB.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
TB.1 - FA5 (Fundamental Aspects) Y. Li The Lack Of Return To Isotropy In Decaying, Axisymmetric, Saffman Turbulence Peter Davidson; Naoya Okamoto; Yukio Kaneda Experimental And Computational Investigation Of A Fractal Grid Wake Wided Medjroubi; Hannes Hochstein; Andre Fuchs; Gerd Gulkert; Joachim Peinke Breakdown Of Kolmogorov's Scaling In Grid Turbulence Lyazid Djenidi; Robert Antonia; Sedat Tardu	TB.2 - CTL3 (Control) G. Balarac Reduction Of Turbulent Wall Friction By Spinning Discs Pierre Ricco; Stanislav Hahn Experimental Investigation Of Nanosecond Plasma Actuators Effect On A Subsonic Jet Noise Jean-Charles Laurentie; Peter Jordan; Nicolas Benard; Joel Delville Symmetries In The Turbulent Wake Of A Sphere Marc Gohlke; Mathieu Grandemange; Olivier Cadot Skin-friction Drag Reduction - Now With Reinforced Passive Control Sohrab S. Sattarzadeh; Jens H. M. Fransson; Bengt E. G. Fallenius; Alessandro Talamelli Lattice Boltzmann Simulations Of Drag Reduction By Superhydrophobic Surfaces Anilreza Rastegari; Rayhaneh Akhavan Influence Of Liquid-gas Interface Dynamics In Superhydrophobic Surfaces For Drag Reduction Jongmin Seo; Ricardo Garcia-Mayoral; Ali Mari	TB.3 - IT4 (Instability & Transition) F. Fedele Stewartson Layer Instability In The Problem Of The Vibrational Hydrodynamic Top Viktor Kozlov; Nikolai Kozlov; Stanislav Subbotin Bi-stability Of The Turbulent Wake Past Parallelepiped Bodies With Various Aspect Ratios And Ground Effect Mathieu Grandemange; Marc Gohlke; Olivier Cadot Three Helical Vortices : Dynamics And Instability Maurice Rossi; Ivan Delbende Absolute Instabilities In Eccentric Taylor-couette-poiseuille Flow Colin Ledercq; Benoit Pier; Julian Scott Experimental Study Of Distributed Receptivity Coefficients At Excitation Of Goertler Modes By Free-stream Vortices Adnrey Ivanov; Yuri Kachanov; Dmitry Mischenko Relative Periodic Edge Orbits In Plane Channel Flow Subhendu Rawat; Carlo Cossu; François Rincon	TB.4 - CONV4 (Convection) F. Chilla Ultimate Rayleigh-bénard And Taylor-couette Turbulence Detlef Lohse; Siegfried Grossmann; Sander Huisman; Rodolfo Ostilla Monico; Erwin van der Poel; Chao Sun; Richard Stevens Temperature Fluctuations Near The Ultimate-state Transition In Turbulent Thermal Convection Xiaozhou He; Dennis van Gils; Eberhard Bodenschatz; Guenter Ahlers Logarithmic Mean Temperature Profiles In Rayleigh-bénard Convection Simulations Erwin van der Poel; Rodolfo Ostilla Monico; Siegfried Grossmann; Detlef Lohse Characterization Of Large Scale Quantities And Energy Spectrum For Very Large Prandtl Numbers Ambirsh Pandey; Mahendra Kumar Verma Local Boundary Layer Heat Transport In Turbulent Rayleigh-Bénard Convection Ronald du Puits; Li Ling; Christian Resagk; André Thess Prandtl Number Dependence Of Statistics In Turbulent Rayleigh-Bénard Convection Mohammad Emran; Nan Shi; Jörg Schumacher	TB.5 - GAF3 (Geo - Astro) S. Berti Transition To Turbulence In Stratified Shear Flow Through An Inclined Square Duct Colin R. Meyer; Paul F. Linden A Forced Dissipated Perspective On The Ocean Mesoscale Turbulence Guillaume Rouillet; Xavier Capet; Radjesvarane Alexandre Pair Dispersion In Atmospheric Boundary Layers Irene Mazzitelli; Alessandra Lanotte; Francesco Fornarelli; Paolo Oresta Direct Numerical Simulation Of Laminarization In The Atmospheric Boundary Layer Judith Donda; Bas Van de Wiel; Gert-Jan Van Heijst; Herman Clercx Well Resolved Measurements Of The Turbulent Fluxes In The Atmospheric Surface Layer Marcus Hultmark; Glad Arwatz; Margit Vallikivi Detailed Inner Structure Of Double-diffusive Intrusions Takashi Noguchi; Hiroshi Niino

12:45-14:15

Lunch (Lunch Hall)

14:15-15:10

14:15-15:10

PLENARY SESSION 6

Plenary Session 6 - Axel Brandenburg (Room 1)

Numerical Simulations Of Turbulent Dynamos

TC.1-5				
Room 1	Room 2	Room 3	Room 4	Room 5
TC.1 - PT7 (Particles) M. Cencini Acceleration Statistics Of Light Particles In Turbulence Vivék N. Prakash; Yoshiyuki Tagawa; Enrico Calzavara; Julian Martinez Mercado; Federico Toschi; Detlef Lohse; Chao Sun Dynamics Of Large Particles In A von Kármán Swirling Flow Nathanael Machicoane; Lionel Fiabane; Robert Zimmermann; Jean-François Pinton; Mickael Bourgoïn; Romain Volk	TC.2 - BL5 (Boundary Layers) S. Tardu Direct Numerical Simulation Of Roughness And Unsteady Wake Effect On Separated Boundary Layers Ayse G. Gungor; Mark P. Simens Phase Dependency Of Near-wall Streamwise Vortices And Associated Reynolds Shear Stresses Close To Spanwise Oscillating Wall Akio Yakeno; Yosuke Hasegawa; Nobuhide Kasagi Turbulent Flow Over Superhydrophobic Surfaces - Roughness Versus Slip Angela Busse; Neil Sandham	TC.3 - NUM1 (Numerics) E. Leveque Large-eddy Simulation Of Channel Gas-particle Flow Induced By Wall Injection With Forced Pressure Oscillations Konstantin Volkow; Vladislav Emelyanov Study Of Flow Instability Due To Streamwise Inter-rod Gapping Kristin Newlands; Shuisheng He; Yakun Guo Numerical Von Kármán Flow Forcing By Two Rotating Propeller Using Penalization Method Yannick Ponty; Sebastian Kreuzahler; Holger Homann; Rainer Grauer	TC.4 - MHD5 (MHD) F. Rincon Turbulence In The Magnetostrophic Regime Simon Cabanes; Henri-Claude Nataf; Nathanael Schaeffer Vortex Generation By Magnetic Dipole Field In A Liquid Metal Duct Flow Saskia Timpel; Thomas Boeck; Dmitry Krasnov; Jörg Schumacher Direct Numerical Simulation Of Spanwise Lorentz Force Oscillations In Turbulent Channel Flow At Low Reynolds Number Atilla Altintas; Lars Davidson	TC.5 - GAF4 (Geo-Astro) P. Odier Sidewall Effects In Confined Turbulent Rotating Rayleigh-Bénard Convection Rudie Kunnen; Yoann Corre; Herman Clercx Tornado-like Vortices Generation Due To Air Turbulent Convection Aleksai Varaksin; Michael Romash; Viktor Kopel'tsev An Experimental Study Of Baroclinic Wave Transitions In A Differentially Heated Rotating Annulus With Sloping Bottom Topography Miklos Vincze; Uwe Harlander; Christoph Egbers; Thomas von Larcher Cell Formation In Thin Spherical Shells With Lateral Temperature Gradient Between Polar And Equatorial Regions. Christoph Egbers; Florian Zaussinger Entraining Structures In Laboratory Analog Of Clouds: Temperature Inversion And Overshooting Updrafts Anna Görska; Szymon Malinowski; Sławomir Błoński; Tomasz Kowalewski; Piotr Korczyk; Wojciech Kumala
Direct Numerical Simulation Of Algae Migration In A Lake Evelyn Aparicio Medrano; Bas van de Wiel; Rob Uittenbogaard; Herman Clercx Lagrangian Conditional Statistics Of Inertial Particle Flows Sergio Chibbaro; Cristian Marchiolli; Maria Vittoria Salvetti; Alfredo Soldati	Time-resolved Evolution Of Wall-bounded Direct And Inverse Cascades In Turbulent Channels At Re=4000 Adrián Lozano-Durán; Javier Jiménez Experimental Investigation Of Heat Transfer Over Drag-reducing Riblets Mathieu Creyssels; Christian Nicot	A Subgrid-scale Model For Les Based On The Physics Of Inter-scale Energy Transfer In Turbulence Julian Andrzej Domaradzki; Brian Wayne Anderson Numerical Modeling Of Synthetic Turbulence Generation By Using Zonal Rans/Ies Method Alibek Issakhov	A New Spectral Method For Direct Numerical Simulations Of Magnetohydrodynamic Channel Flows Kacper Kornet; Alban Pothérat Effect Of Transverse Magnetic Field On Stability Of Plane Poiseuille Magnetohydrodynamic Flow Vivek Subramaniam; Pranav Kamat; Sameen A	

16:30-17:00

Coffee Break

COFFEE BREAK

15:15-16:30

Room 1	Room 2	Room 3	Room 4	Room 5
TD.1 - PT8 (Lagrangian) E. Calzavara Numerical Investigations Of Colliding Particles In Spatially Decaying Turbulence Christoph Siewert; Rudie Kunnen; Matthias Meinke; Wolfgang Schröder Dispersion Of Particles From Localized Sources In Turbulence Riccardo Scatamacchia; Luca Biferale; Alessandra Sabina Lanotte Effective Diffusion And Dispersion Of Inertial Particles In Flowing Fluids Marco Martins Afonso; Andrea Mazzino; Paolo Muratore-Ginanneschi	TD.2 - BL6 (Boundary Layers) R. B. Cal Direct Numerical Simulation Of Turbulent Wall Flows At Constant Power Input Yosuke Hasegawa; Bettina Frohnapef; Maurizio Quadrio The Geometry Of The Turbulent-non-turbulent Interface Layer In Boundary Layers Guillem Borrelli; Jiménez Javier Off-wall Boundary Conditions For Bounded Turbulent Flow Simulations Ricardo Garcia-Mayoral; Brian Pierce; James Wallace Dns Of Turbulent Flow With Temporal Acceleration Yongmann Chung On The Effects Of Porous Walls On Transitional And Turbulent Channel Flows Maurizio Quadrio; Marco Rosti; Davide Scarselli; Luca Cortezzi Breakup Of Small Aggregates In Bounded And Unbounded Turbulent Flows Matthäus Bäbler; Luca Biferale; Luca Brandt; Ulrike Feudel; Ksenia Guseva; Alessandra Lanotte; Cristian Marchioli; Eros Peelle; Francesco Picano; Sardin Getano; Alfredo Soldati; Toschi Federico	TD.3 - CT2 (Compressible) A. Kritsuk Dsmc Simulation Of Transition And Turbulent Flow In A Lid-driven Cavity At High Mach Number Sahadev Pradhan; Viswanathan Kumaran Artificial Turbulization Of The Supersonic Boundary Layer By Dielectric Barrier Discharge Pavel Polivanov; Andrey Sidorenko; Anatoly Maslov Experimental Investigation Of Effect Of Ultrasonically Absorptive Coating Lengths On Second Mode Disturbances In Hypersonic Boundary Layer Sergey Lukashovich; Sergey Morozov; Aleksandr Shiplyuk Reverse Of Laminar-turbulent Transition In A Supersonic Under-expanded Microjets Sergey Mironov; Vladimir Aniskin; Anatoly Maslov; Ivan Tsyryulnikov Turbulence In A Rotor/stator Cavity In The Vicinity Of The Critical Point Of Sfc Gautier Verhille; Cécile Lachize; Patrice Le Gal Effect Of Compressibility On The Merging Of Shielded Vortices Ravindra Shende; Sameen A.	TD.4 - NNF2 (Non-Newtonian) H. Xu Contravariant And Covariant Polymer Dumbbells In Non-affine Viscoelastic Turbulence Kiyosi Horii; Shohel Takeu Friction Factor For Turbulent Flows Of Herchel-bulkley Fluids In Rough Pipes Daniel Cruz; Atila Freire Relevant Terms For Large-eddy Simulations Of Viscoelastic Isotropic Turbulence Antonio Mosca; Carlos B. da Silva; Fernando T. Pinho; Pedro Valente Influence Of A Strongly Shear-thinning Rheology On Nonlinear Waves With A 3-fold Rotational Symmetry In Pipe Flow: Asymptotic Regime Emmanuel Plaut; Nicolas Roland; Cherif Nouar Elastic-turbulence-induced Melting Of A Nonequilibrium Vortex Crystal In A Forced Thin Fluid Film ANUPAM GUPTA; RAHUL PANDIT On The Peterlin Approximation For Turbulent Flows Of Polymer Solutions Luca Biferale; Prasad Perlekar; Federico Toschi; Dario Vincenzi	TD.5 - TH1 (Theory) M. Wilczek Finite Reynolds Number Effects On Pressure In Freely Decaying Isotropic Turbulence Marcello Meldi; Pierre Sagaut The Dynamics Of Pressure In Planar Turbulent Flows: Flow Stability And Modeling Aashwin Mishra; Sharath Ginnaji Prediction Of Low-frequency Trailing Edge Noise Using Rapid Distortion Theory Mohammed Alsar; Marvin Goldstein; Stewart Leib Comprehensive Realizability Of Pressure Strain Correlation Models Sharath Ginnaji; Aashwin Mishra On Pseudo Self-similar Regimes In Isotropic Turbulence Decay Pierre Sagaut; Marcello Meldi What Rdt Tells Us About T/nt Interfaces Miguel Teixeira; Carlos Silva On The Strength Of The Non-linearity In Isotropic Turbulence Robert Rubinstein; Wouter Bos
	Extended Theory Of Oil Film Interferometry For Skin Friction Measurement Antonio Segalini; Peter Monkewitz; Jean-Daniel Ruedi			

PLENARY SESSION 7

Plenary Session 7 - Roberto Camussi (Room 1)
Application Of Time-frequency Tools In Aeroacoustics

WA.1-5

Room 1	Room 2	Room 3	Room 4	Room 5
WA.1 - TC1 (Taylor-Couette) D. Lohse <i>The Basic Physics Of The Linear Transient Growth In Plane Shear Flows</i> George Chagelishvili; Jan-Niklas Hau; George Khujadze; Martin Oberlack <i>Turbulent Bursts And Torque Maxima In Taylor-couette Flow</i> Hannes J. Brauckmann; Bruno Eckhardt	WA.2 - STR1 (Stratification) A. Venaille <i>Energy Transfer In Stratified Turbulence</i> Stefano Musacchio; Guido Boffetta; Paolo Muratore-Ginanneschi <i>Explicit Algebraic Models For Turbulent Flows With Buoyancy Effects</i> Werner Lazeroms; Geert Brethouwer; Stefan Wallin; Arne Johansson <i>Vortex Structures Of 3d Separated Flows Of Stratified Viscous Fluid</i> Pavel Matyushin; Valentin Gushchin <i>On The Evolution Of Full-field Stratified Turbulence</i> Andrea Maffioli; Peter Davidson; P.K. Yeung	WA.3 - CRYO3 (Cryogenics) P. Roche <i>Interplay Of Laminar And Turbulent Dynamics In Helium Superfluids</i> Vladimir B. Elsov; Samuli Autti; Matti Krusius <i>Energy And Geometry Of A Tangle Of Vortex Filaments</i> Lucy Sherwin; Andrew Baggaley; Carlo Barenghi <i>Superfluid Turbulence, Vortex Dynamics, And Universality In Ultracold Bose Gases</i> Markus Karl; Boris Nowak; Thomas Gasenzer	WA.4 - PSM1 (Passive Scalar & Mixing) J. Lemay <i>Budgets Of Turbulent Kinetic Energy And Scalar Variance In The Self-similar Region Of A Round Jet</i> Jean Lemay; Azemi Benaissa; Alexis Darisse <i>Passive Scalar Mixing: Turbulence Versus Chaotic Advection.</i> Benjamin Kadoch; Wouter Bos; Kai Schneider <i>Turbulence Induced Coarsening Arrest In Spinodal Decomposition</i> Federico Toschi; Roberto Benzi; Herman Clercx; David R. Nelson; Prasad Perlekar	WA.5 - ROT3 (Rotation) C. Cambon <i>Experimental And Numerical Study Of Oscillating Grid Turbulence Subjected To System Rotation</i> Yohel Morinishi; Zhixiang Liu; Toshiki Nagao; Shinji Tamano <i>Experimental Investigation Of Large-scale Non-decaying Rotating Turbulence</i> Lian Gan; Yasir B. Baqui; Peter A. Davidson; Per-Aage Krogstad; James R. Dawson <i>Which Scales Are More Anisotropic In Rotating Turbulence?</i> Pierre-Philippe Cortet; Frédéric Moisy <i>Energy Transfers In A Forced Homogeneous Turbulence Experiment Under Rotation</i> Antoine Campagne; Basile Gallet; Paul Billant ; Frédéric Moisy; Pierre-Philippe Cortet <i>The Near Wake Of A Square Cylinder Under The Effect Of Coriolis Forces</i> Ignacio Mayo; Filippo Coletti; Tony Arts
Symmetry Related Slow Processes In Parallel Shear Flows Bruno Eckhardt; Tobias Kreilos	<i>Spectral Analysis Of The Transition To Turbulence From A Dipole In Stratified Fluid</i> Jean-Marc Chomaz; Pierre Augier; Paul Billant	<i>Reconnections Of Quantum Vortices</i> Konrad Bajer; Miron Kurski; Tomasz Lipniacki	<i>Experimental And Numerical Study Of Chaotic Mixing In A Curved-square Duct Flow</i> Yasutaka Hayamizu; Shinichiro Yanase; Kazunori Nishida; Kyoji Yamamoto	

COFFEE BREAK

Coffee Break

11:15-12:45

WB.1-5				
Room 1	Room 2	Room 3	Room 3	Room 5
WB.1 - TC2 (Taylor-Couette) B. Eckhardt <i>Optimal Taylor-couette Turbulence</i> Chao Sun; Dennis P. M. van Gils; Sander G. Huismans; Siegfried Grossmann; Detlef Lohse <i>A K-ε- V2-f Model For Turbulent Flow Of Dilute Polymer Solutions Up To The Maximum Drag Reduction</i> Mohammadali Masoudian; Kyoungyoun Kim; Fernando Tavares de Pinho; Radhakrishna Sureshkumar	WB.2 - ENG2 (Engineering) N. Mazzella <i>Characterization Of Wake Dynamics Via Proper Orthogonal Decomposition For Varying Wind Farm Arrangements</i> Nicholas Hamilton; Murat Turkun; Raul Bayoan Cal <i>Robust Real-time Estimation Of The State Of The Flow Past A Backward-facing Step</i> Nicolas Gauthier; Jean-Luc Alder	WB.3 - JET2 (Jets) R. Antonia <i>Near Field Round Jet Flow Downstream From An Extended Abrupt Contraction Nozzle</i> Annemie Van Hirtum; Xavier Grandchamp <i>Volumetric Investigation Of Vortex Pairing In A Wall Jet In Air</i> David Hess; Christoph Skuppsch; Jens Kitzhofer; Christoph Brucker <i>Experimental And Numerical Study Of The Turbulent/non-turbulent Interface In A Turbulent Round Jet Flow</i> Konstantin Kleinheinz; Markus Gampert; Heinz Pitsch; Norbert Peters	WB.4 - CONV5 (Convection) R. du Puits <i>Turbulent Convection In Bounded Vertical Layers</i> Peter Frick; Andrey Teymurazov; Andrey Vasiliev <i>Energy Dissipation Rate, Velocity Correlation Function And Structure Functions In Turbulent Rayleigh-Bénard Convection With Polymer Additives</i> Ke-Qing Xia; Rui Ni; Xiao-Ming Li; Ping Wei <i>Influence Of The Stratification On The Turbulent Convective Flow In A Tilted Channel</i> Éléonore Rusouën; Xavier Riedinger; Jean-Christophe Tisserand; Fanny Seychelles; Julien Salort; Bernard Castaing; Francesca Chilla	WB.5 - TH2 (Theory) S. Grimani <i>On The Role Of Helicity In The Three-dimensional Navier-Stokes Equations</i> Luca Biferale; Stefano Musacchio; Titi S. Edriss; Federico Toschi <i>Vorticity Statistics And The Time Scales Of Turbulent Strain</i> Luca Moriconi; Rodrigo Pereira <i>Instanton Filtering For The Stochastic Burgers Equation</i> Tobias Grafke; Rainer Grauer; Tobias Schaefer <i>Functional Renormalization-group Approach To Decaying Turbulence</i> Andrei Fedorenko; Pierre Le Doussal; Kay Wiese <i>Renormalization Of The Fragmentation Equation: Exact Self-similar Solutions And Turbulent Cascades</i> Vladimir Leonidovich Savilev; Mikhail Arkadievich Gorokhovski
Experiments On The Onset Of Subcritical Turbulence In Shear Flows Kerstin Avila; Ralf Eggen; Björn Hof CANCELLED	Characterization Of Wake Dynamics Via Proper Orthogonal Decomposition For Varying Wind Farm Arrangements Nicholas Hamilton; Murat Turkun; Raul Bayoan Cal Robust Real-time Estimation Of The State Of The Flow Past A Backward-facing Step Nicolas Gauthier; Jean-Luc Alder	Near Field Round Jet Flow Downstream From An Extended Abrupt Contraction Nozzle Annemie Van Hirtum; Xavier Grandchamp Volumetric Investigation Of Vortex Pairing In A Wall Jet In Air David Hess; Christoph Skuppsch; Jens Kitzhofer; Christoph Brucker Experimental And Numerical Study Of The Turbulent/non-turbulent Interface In A Turbulent Round Jet Flow Konstantin Kleinheinz; Markus Gampert; Heinz Pitsch; Norbert Peters	Turbulent Convection In Bounded Vertical Layers Peter Frick; Andrey Teymurazov; Andrey Vasiliev Energy Dissipation Rate, Velocity Correlation Function And Structure Functions In Turbulent Rayleigh-Bénard Convection With Polymer Additives Ke-Qing Xia; Rui Ni; Xiao-Ming Li; Ping Wei Influence Of The Stratification On The Turbulent Convective Flow In A Tilted Channel Éléonore Rusouën; Xavier Riedinger; Jean-Christophe Tisserand; Fanny Seychelles; Julien Salort; Bernard Castaing; Francesca Chilla	On The Role Of Helicity In The Three-dimensional Navier-Stokes Equations Luca Biferale; Stefano Musacchio; Titi S. Edriss; Federico Toschi Vorticity Statistics And The Time Scales Of Turbulent Strain Luca Moriconi; Rodrigo Pereira Instanton Filtering For The Stochastic Burgers Equation Tobias Grafke; Rainer Grauer; Tobias Schaefer Functional Renormalization-group Approach To Decaying Turbulence Andrei Fedorenko; Pierre Le Doussal; Kay Wiese Renormalization Of The Fragmentation Equation: Exact Self-similar Solutions And Turbulent Cascades Vladimir Leonidovich Savilev; Mikhail Arkadievich Gorokhovski
Velocity And Front Velocity Measurements In Experimental Plane Couette Flow Marie Couliou; Romain Monchaux	On The Low-frequency Behaviour Of The Laminar Separation Bubble On A Naca 0012 Near Stall Oriol Lehmkuhl; Ivette Rodríguez; Ricard Borrell; Assensi Oliva Cavity Flows: Change Of Regime In The Ratio Between The Pressure And Kinetic Energy Flows Across The Cavity Mouth. Antonella Abbà; Peter Roger Bailey; Daniela Tordella	Buoyancy Effects In Turbulent Jet Mixing Sergiy Gerashchenko; Kathy Prestbridge Analysis Of Jet-jet Interaction Of Multiple Impinging Jet Using Dns Takahiko KOIDE; Koichi TSUJIMOTO; Toshiniko SHAKOUCHI; Toshitake ANDO Variable-viscosity Mixing In The Very Near Field Of A Round Jet Léa Voivenel; Benoît Talbot; Luminia Danaila	The Geostrophic Regime Of Rotating Rayleigh-bénard Convection Robert Ecke; Scott Backhaus Mixed Convection In A Rayleigh-Bénard Cell With An Imposed Mean Wind Andrea Scagliarini; Armann Gylfason; Federico Toschi Vortex Identification In Rotating Turbulent Rayleigh-bénard Convection Of Water Susanne Horn; Olga Shishkina; Claus Wagner	Functional Renormalization-group Approach To Decaying Turbulence Andrei Fedorenko; Pierre Le Doussal; Kay Wiese Renormalization Of The Fragmentation Equation: Exact Self-similar Solutions And Turbulent Cascades Vladimir Leonidovich Savilev; Mikhail Arkadievich Gorokhovski Energy And Helicity Spectra In The Shell Model With Distributed Helicity Injection Alexander Shestakov; Ephim Golbraikh; Rodion Stepanov; Peter Frick
Symmetry Of Vortices In Transition Of Plane Couette Flow At Moderate Reynolds Number Tomoaki Itano; Sotos Generalis; Takahiro Ninomiya; Takeshi Akinaga; Masako Sugihara-Seki	Experimental Investigation On 3d Lagrangian Coherent Structures In The Left Ventricle Maria Grazia Badas; Stefania Espá; Stefania Fortini; Giorgio Querzoli	Variable-viscosity Mixing In The Very Near Field Of A Round Jet Léa Voivenel; Benoît Talbot; Luminia Danaila	Mixed Convection In A Rayleigh-Bénard Cell With An Imposed Mean Wind Andrea Scagliarini; Armann Gylfason; Federico Toschi Vortex Identification In Rotating Turbulent Rayleigh-bénard Convection Of Water Susanne Horn; Olga Shishkina; Claus Wagner	Energy And Helicity Spectra In The Shell Model With Distributed Helicity Injection Alexander Shestakov; Ephim Golbraikh; Rodion Stepanov; Peter Frick

12:45-14:15

Lunch (Lunch Hall)

LUNCH

14:15-15:10

PLENARY SESSION 8

Plenary Session 8 - Arne Johansson (Room 1)

Dns And Modeling Of Structures, Complexities, Fibres And Rotational Effects In Turbulent Channel Flow

Room 1	Room 2	Room 3	Room 4	Room 5
WC.1 - EXP1 (Experiments) G. Bewley	WC.2 - NUM2 (Numerics) F. Toschi	WC.3 - IT5 (Instability & Transition) P. Manneville	WC.4 - PSM2 (Passive Scalar & Mixing) F. Raynal	WC.5 - WT2 (Wave Turbulence) J. Laurie
Accuracy Of Wall-shear Stress Measurements Using Micro-pillars Bernardo Nottbrock; Wolfgang Schröder	Underresolved Turbulence Simulations With Stabilized High-order Discontinuous Galerkin Methods Andrea Beck; Gregor Gassner; Claus-Dieter Munz	Weakly-nonlinear Instability Development In A Sharply Stratified Shear Flow With An Infection-free Velocity Profile Semyon Churilov	Experimental Scalar Spectra In Chaotic Advection Cyril Mauger; Nathanaël Machicoane; Mickael Bourgoïn; Romain Volk; Florence Raynal	Spatiotemporal Investigation Of Capillary Wave Turbulence: Hypothesis Of Weak Nonlinearity Under Scrutiny Michael Berhanu; Eric Falcon
Experiments With Super-miniature Hot-film Probe For Sub-kolmogorov Resolution In High-Reynolds-number Turbulence Yury Borissov; Michael Kholmiansky; Slava Krylov; Alexander Liberson; Arkady Tsinober	An Explicit Algebraic Subgrid-scale Scalar Variance Model Anin Rasam; Zeinab Pouransari; Luc Vervisch; Arne V. Johansson	Effects Of Freestream Turbulence On Crossflow Instability Sayed Mohammad Hosseini; Ardeshtir Hanifi; Dan Henningson	Scalar Gradient Statistics In Isotropic Turbulence In The Presence Of A Mean Scalar Gradient Wouter Bos	Direct Numerical Simulations Of Capillary Wave Turbulence Luc Delke; Daniel Fuster; Michael Berhanu; Eric Falcon
Measurement Of Fine Scale Structure In Turbulence By Quad-plane Stereoscopic PIV Yoshitsugu Nakai; Kenichi Tomita; Masayasu Shimura; Naoya Fukushima; Mamoru Tanahashi; Toshio Miyauchi	A Mixed Multiscale Dynamic Sgs Model Accounting For The Cross-term Olivier Thiry; Grégoire Winckelmans	Direct Numerical Simulations Of Tilted Rayleigh-taylor Instability Daniel Livescu; Tie Wei	Measurement And Analysis Of Incremental Averages Of Passive Scalar Statistics In Grid Turbulence Laurent Mydlarski; Colin Meyer; Luminita Denaila	Flow Topology In Drift-wave Turbulence Diego del-Castillo-Negrete; Benjamin Kadomtchik; W.J.T. Bos; Kai Schneider
Using Dns To Compare The Performance Of Virtual Hot-wire Probe Sensor And Array Configurations For Simultaneous Measurement Of The Velocity Vector And Velocity Gradient Tensor Petar Vukoslavcic; James Wallace	Numerical Simulation Of Turbulent Channel Flow With Synthetic Wall Boundary Conditions Berengere Podvin; Yann Fraigneau	About The Nature Of A Secondary Phenomenon Inside A Cavity Shear Flow Christelle Douay; Luc Pastur; François Lusseyran	Signature Of Salt-induced Diffusion Of Particles In A Turbulent Water Jet Nathanaël Machicoane; Cyril Mauger; Romain Volk; Mickael Bourgoïn; Céline Cottin-Bizonne; Christophe Ybert; Florence Raynal	Numerical Investigation Of The Role Of Dissipation In Flexural Wave Turbulence: From Experimental Spectra To Kolmogorov-zakharov Scalings Benjamin Miquel; Alexandros Alexakis; Nicolas Mordant
Control Of Turbulence With A High Degree-of-freedom Active Grid Gregory Bewley; Johannes Kassel; Eberhard Bodenschatz	Large-eddy Simulation Of Turbulent Flows On Composite Multiresolution Grids By The Lattice Boltzmann Method Hatem Toulil	Stability Analyses Of Flow Through An Aneurysm: Steady And Pulsatile Flows Shyam Sunder Gopalakrishnan; Benoît Pier; Arie Biesheuvel	Dispersion Of A Scalar Puff In Turbulence: Theory And Experiment Enrico Calzavara; Willem van de Water	New Aspects Of Energy Transfer In Charnay-hasegawa-minawave Turbulence Brenda Quinn; Miguel Bustamante; Colin Connaughton

COFFEE BREAK

Coffee Break

17:00-17:45

Room 1	Room 2	Room 3	Room 4	Room 5
WD.1 - EXP2 (Experiments) A. Liberson	WD.2 - NUM3 (Numerics) H. Toulil	WD.3 - IT6 (Instability & Transition) M. Buffat	WD.4 - STR2 (Stratification) P. Augier	WD.5 - PF4 (Pipe Flows) B. Hof
Experimental Measurement Of Turbulence Intensity Of Flow Over Two Rod And Circular Cylinder In Tandem Arrangement Farzad Mir; Amir Bak Khoshnevis; Ehsan Gholipour; Mohammed Rezaei Moghaddam	Large-eddy Simulations Of Turbulent Flow Around A Wall-mounted Cube Using An Adaptive Mesh Refinement Approach Oscar Antepara; Oriol Lehmkuhl; Assensi Oliva; Federico Favre	Transition To Turbulence In The Rotating-disk Boundary Layer Ellinor Appelquist; Philipp Schlatter; Henrik Alfredsson; Rebecca Ungwood	Growth And Collapse Of A Finite Patch Of Stratified Turbulence Zachary Taylor; Alexander Liberzon; Peter Diamessis; Roi Gurka	The Speed Of Turbulent-laminar Fronts In Pipe Flow Dwight Barkley; Marc Avila; Björn Hof
Reconstruction Of Wavelike Three-dimensional Coherent Structures Through Time-resolved Planar Measurements Jérémy Basley; Luc Pastur; François Lusseyran; Julio Soria	Blended Scale-separation Models For Large Eddy Simulations Roel Verstappen	What Happens To The Critical Layer When The Transition Inducing Mechanism In The Swirling Flow In An Annulus Shifts From Tollmien-schlichting's To Taylor's Venkatesa Iyengar Vasanta Ram; Jeanette Hussong; Nikolaus Jeromin	Experimental Observation Of Density Fluctuations In A Stably Stratified Turbulent Fluid antoine venaille; Louis Gostiaux; Joël Sommeria	Phase Transition To Sustained Turbulence In Pipe Flow Mukund Vasudevan; Marco Vassallo; Björn Hof
Correlation Between Active Grid Excitation And Generated Wind Field Nico Reinke; Joachim Peinke; Michael Hölling	Progress On Eddy-viscosity Models For Les: New Differential Operators And Discretization Methods F.Xavier Trias; Roel Verstappen; Andrey Gorobets; Assensi Oliva	Transition Near The Edge Of A Rotating Disk Benoît Pier	Tangling Clustering Instability For Small Particles In Temperature Stratified Turbulence Tov Eiperin; Nathan Kleorin; Misha Liberman; Igor Rogachevskii	Turbulent-spot Development In Constant-mass-flux Channel Flow Takahiro Tsukahara; Takahiro Ishida; Yohann Duguet

17:45-18:15

Closing (Room 1)

D. Lohse

CONFERENCE INFORMATION

REGISTRATION

The desk will be open:

- Saturday, August 31 from 17:00 to 19:30
- Sunday, September 1, 7:30 to 12:00 and 13:30 to 17:00
- Monday through Wednesday, from 10:00 to 12:00

BADGE

Participants are required to wear their badges all the time during the conference and the gala in order to get access to the different venues.

ORAL PRESENTATIONS

Plenary sessions will be held in the Mérieux amphitheater (Room 1 in the building in blue, see map). Parallel sessions will be held either in Room 1, or in Rooms 2-5 of the building shown in green on the map.

Speakers are asked to upload their presentations before their session on the laptop computer available in the proper room. We strongly recommend to prepare a high-quality PDF version of your presentation. Usage of personal laptop is also possible. If you choose this option, please, check before the session starts. Staff will be available in each room to help you with this. Contributed talks will be assigned 12mn for presentation + 3mn for questions.

POSTERS

Posters have to be installed on the dedicated boards in the hall in front of Amphitheater Mérieux (room 1). Pins and duct tape will be available. Posters will stay in place through the duration of the poster session.

SESSION CHAIRS

Chairpersons are expected to arrive 10mn before the beginning of their session, and will be asked to enforce a strict schedule in order to keep the sessions synchronized. If a presentation is cancelled or the speaker fails to appear, the session is suspended until it is time for the next presentation.

REFRESHMENTS

Refreshments will be served during morning and afternoon breaks in the lobby next to the Mérieux amphitheater (Room 1) and in the lower floor (next to Room 2 and to the posters).

CONFERENCE INFORMATION

LUNCHES

Lunches will be served as a buffet from 12:45 to 14:00 next to the Mérieux amphitheater (room 1). Please make sure you wear your badge when accessing the buffet.

WELCOME GATHERING

Drinks will be served after the registration on Saturday, August 31 from 17:00 to 19:00.

Another informal reception will take place on Sunday, September 1, at the end of the sessions, at the Lunch Hall, next to Room 1.

TOUR OF LYON

A walking tour of Lyon will be organized on Monday, September 2 between 18:30 and 20:00. Limited number of places available, on a first arrived basis at registration. The departure will be outside the Lunch Hall.

RECEPTION

The gala diner will be held in downtown Lyon at the *Palais de la bourse* located on *rue de la République* (Metro line A, station *Cordeliers*). It will start at 20:00 on Monday, September 2, after the tour, and end at 23:00. Please do not forget to wear your badge in order to get access to the gala venue.

WIRELESS INTERNET

Wireless will be available by using "eduroam", or an access code provided to the participants.

DISCLAIMER

The organizing committee accepts no liability for any injuries/losses incurred by participants and/or accompanying persons, nor loss of, or damage to, any luggage and/or personal belongings.

USEFUL INFORMATION

USEFUL PHONE NUMBERS

- Fire brigade or General emergency (Sapeurs-pompiers) 18 or 112
- Medical emergencies (SAMU) 15 or 112
- Police 17 or 112

PUBLIC TRANSPORTATION

Bus and metro information will be available at the registration desk.

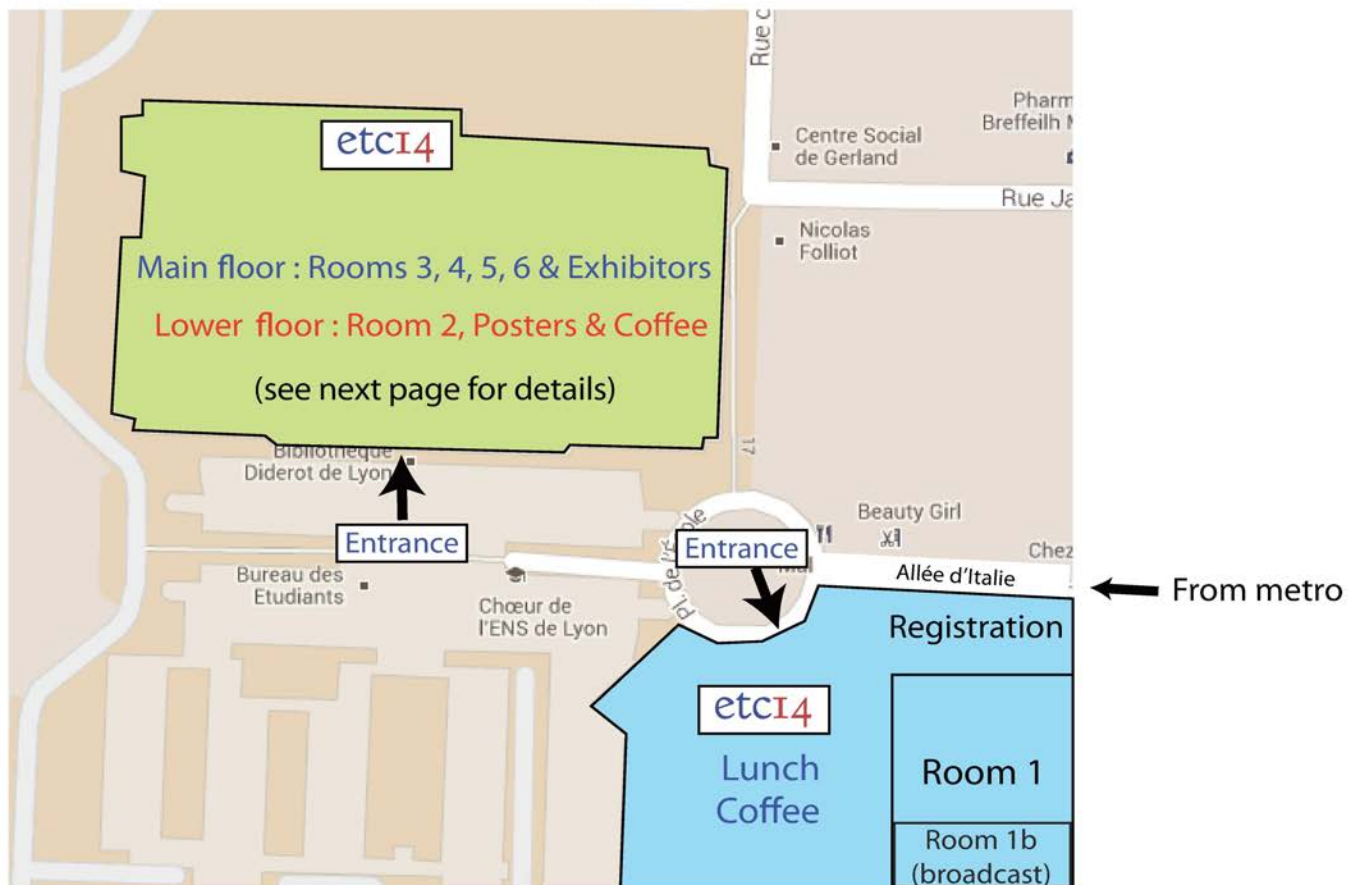
TAXI

Phone numbers of some taxi companies:

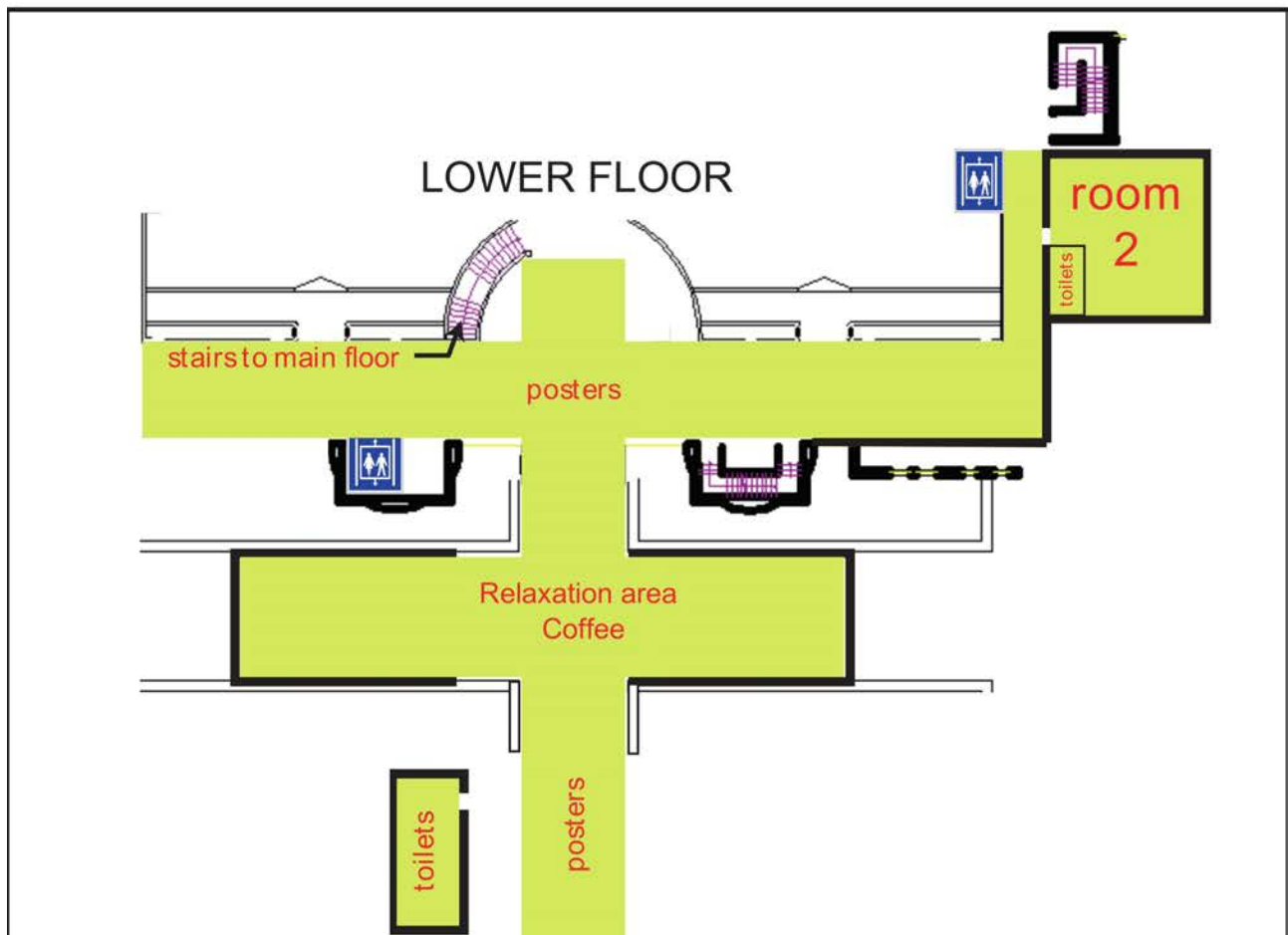
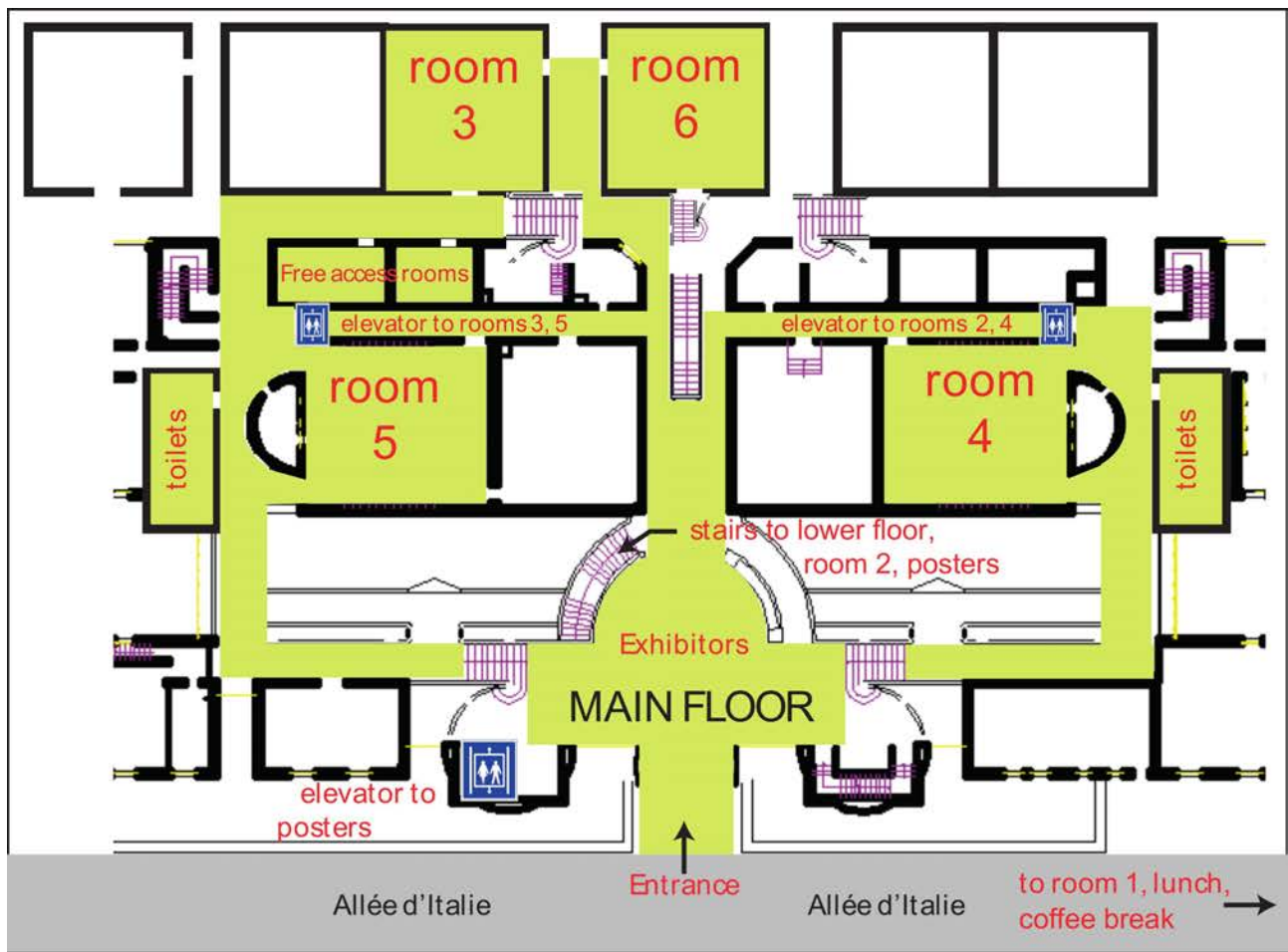
- Taxivillemobile 06 67 73 03 03
- Taxi Lyonnais 04 78 26 81 81
- Allo Taxi 04 78 28 23 23

MAPS

Conference site ENS de Lyon

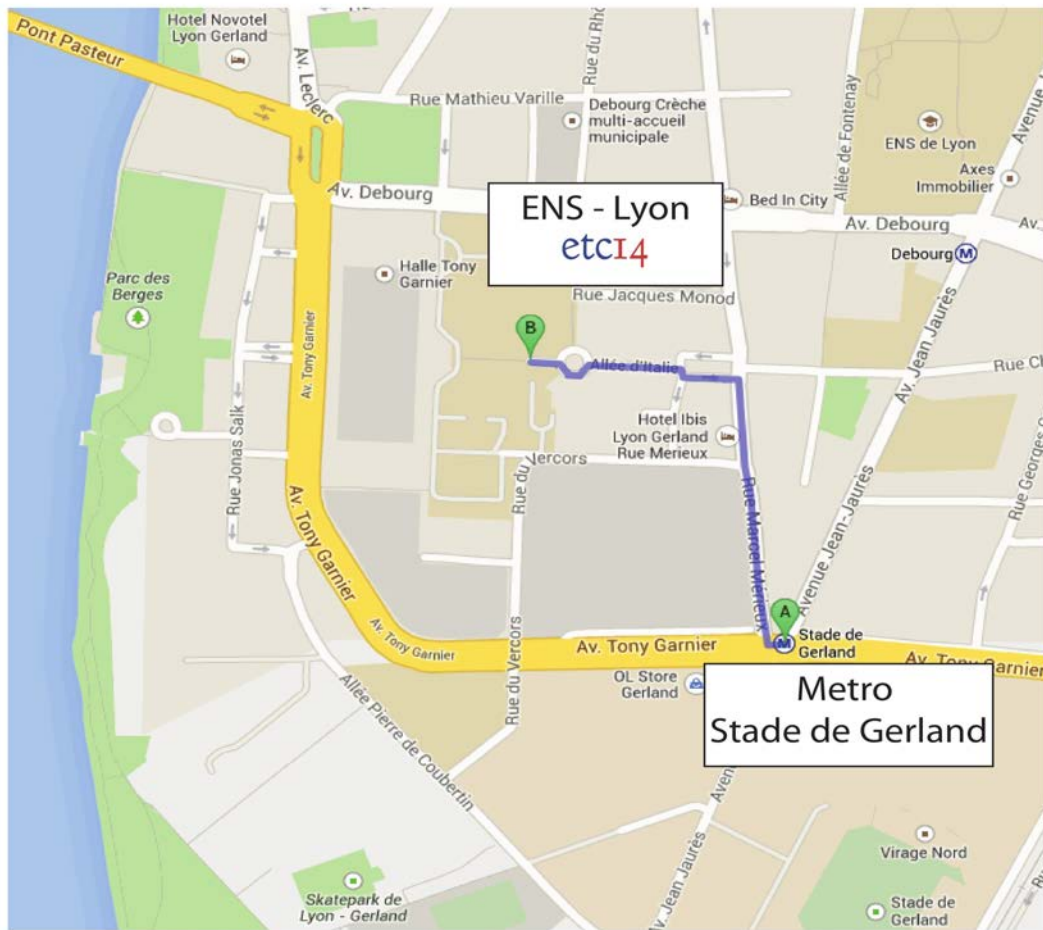


MAPS



MAPS

Conference area



Gala area



Scientific committee

Detlef Lohse [Chair] (U. Twente)
Konrad Bajer (U. Warsaw)
Eberhard Bodenschatz (MPI Goettingen)
Carlo Casciola (La Sapienza, Roma)
Stephan Fauve (ENS de Paris)
Yury Kachanov (U. Novosibirsk)
Rich Kerswell (U. Bristol)
Dan Henningson (KTH Stockholm)
Jean-François Pinton (ENS de Lyon)
Neil Sandham (U. Southampton)

Local Organization Committee

J.-F. Pinton (ENS de Lyon, CNRS)
M. Bourgoïn (LEGI, CNRS)
L. Chevillard (ENS de Lyon, CNRS)
F. Godeferd (LMFA, CNRS)
N. Mordant (LEGI, U. Grenoble)
A. Naso (LMFA, CNRS)
A. Pumir (ENS de Lyon, CNRS)
R. Volk (ENS de Lyon)

Topics include, but are not limited to

- Acoustics of turbulent flows
- MHD turbulence
- Atmospheric turbulence
- Reacting and compressible turbulence
- Control of turbulent flows
- Transport and mixing
- Geophysical and astrophysical turbulence
- Turbulence in multiphase and non-Newtonian flows
- Instability and transition
- Vortex dynamics and structure formation
- Intermittency and scaling
- Wall bounded flows
- Large eddy simulation and related techniques
- Turbulent combustion
- Lagrangian aspects of turbulence
- Turbulence in superfluids

More information at

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etcI4