

# Pre-nominated Session FM24

## Turbulence

Co-Chair(s):           Olivier Metais (France)  
                          R.D. Moser (USA)

Paper ID	Title	Authors
FM24L_10149	Large Eddy Simulations of Decaying Rotating Turbulence	Andrzej J. Domaradzki, Xiaolong Yang
FM24L_10455	Large - Eddy Simulation of Shock - Wave / Turbulent - Boundary - Layer Interaction	M. S. Loginov, N. A. Adams, A. A. Zheltovodov
FM24S_10506	Experimental Study of Rotor-Stator Flows with Centripetal Fluxes	Sebastien Poncet,, Marie-Pierre Chauve, Patrice Le Gal
FM24L_10564	PDF Computation of Turbulent Flows with a New Near - Wall Model	Marta Waclawczyk, Jacek Pozorski, Jean - Pierre Minier
FM24L_10937	Interaction Between a Columnar Vortex and External Turbulence	Naoya Takahashi, Takeshi Miyazaki
FM24S_11116	Turbulence Scalings in Supersonic Channel Flow	Rainer Friedrich, Holger Foysi, Sutanu Sarkar
FM24S_11151	On the Scale Similarity in Large Eddy Simulation	F. Gallerano, G. Cannata, E. Pasero
FM24S_11161	Two Scale Approach to Anisotropic Turbulence in Hel II	Tomasz Lipniacki
FM24S_11256	Optimization of an Implicit Subgrid - Scale Model for LES	S. Hickel, S. Franz, N. A. Adams, P. Koumoutsakos
FM24L_11303	Study of the Turbulent Energy Spectrum Build Up in an Experimental Vortex Burst	Yannis Cuypers, Agnes Maurel, Philippe Petitjeans
FM24S_11454	Empirical Galerkin Models for Incompressible Flow --- Pressure-Term and 'Subgrid' Turbulence Representations	Bernd R. Noack, Paul Papas, Peter A. Monkewitz, Marek Morzynski, Gilead Tadmor
FM24S_11488	Orthonormal Wavelet Analysis of CGT in Fully Developed Asymmetric Turbulent Channel Flow	Yu - Lu Liu, Jian - Bo Jiang, Xiang Qiu

FM24L_11802	The Cellular Structure and Its Tracks of a H <sub>2</sub> /O <sub>2</sub> /Ar Detonation Waves	Xiangyu Hu, J. Czerwinska, N. Adams, B. C. Khoo
FM24S_11814	Energy Spectrum in Rotating Turbulence	Frederic Moisy, Cyprien Morize, Marc Rabaud
FM24S_12004	Three-Dimensional Turbulent Structures of Different Scales	Akira Rinoshika, Yu Zhou
FM24L_12151	Inertial Similarity of Velocity Distributions in Homogeneous Isotropic Turbulence	Tomomasa Tatsumi, Takahiro Yoshimura
FM24S_12430	A New Mixed Nonlinear LES Models for Boundary Layers	R.M. Kerr, P.G.Tucker
FM24L_12436	Nonlinear Scale - Free Cascades and Their Stationary Spectra	Dmitri O. Pushkin, Hassan Aref
FM24L_12564	3D - Measurements in an Adverse - Pressure - Gradient Turbulent Boundary Layer over Smooth and Ribbed Surfaces	Thomas Indinger, Stefan Hickel, Nikolaus A. Adams
FM24S_12652	POD Analysis of Coherent Structures in Turbulent Flows	Song Fu, Min Tang, Jiang He
FM24L_12675	Resonant Interactions of 3D Instability Waves in an Airfoil Boundary Layer for Harmonic and Broadband Perturbations	D. Sartorius, W. Wurz, S. Wagner, V. I. Borodulin, Y. S. Kachanov
FM24S_12740	Compressibility Effects and Sound Propagation in Turbulent Channel Flow	Pierre Comte, Christophe Brun, Marie Haberkorn, Gilles Bouchet, V. Pagneux, Y. Auregan
FM24L_12757	On the Structure of Turbulence and Reynolds Stress Distribution in the Bottom Boundary Layer of the Coastal Ocean	Luksa Luznik, Roi Gurka, W.A.M. Nimmo Smith, Weihong Zhu, Joseph Katz, Thomas Osborn
FM24S_12922	Numerical Modelling of Small - Scale Turbulence in Clouds	Mirosław Andrejczuk, Szymon Malinowski
FM24L_12965	Impact of Pressure - Gradient Conditions on High Reynolds Number Turbulent Boundary Layers	Hassan Nagib, Chris Christophorou, Peter Monkewitz