

Pre-nominated Session FM13

Flow instability and transition

Co-Chair(s): P. Huerre (France)
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Paper ID	Title	Authors
FM13S_10185	Instabilities in a Taylor - Dean Open Flow	Aomar Ait Aider, S. Skali, J. P. Brancher
FM13S_10188	Shear Layer Instability and Frequency Modes Inside an Open Cavity	Francois Lusseyran, Thierry M. Fouere, Celine Aschenbrenner, Yann Fraigneau
FM13L_10313	Travelling Waves and Transition to Turbulence in Pipe Flow	Bruno Eckhardt, Holger Faisst
FM13S_10487	Nonlinear Mechanics of Wavy Instability of Steady Longitudinal Vortices and Drag Rise in Boundary Layer Flow	J. T. C. Liu, I. G. Girgis
FM13L_10489	Stability of Flow in a Rough Channel	J.M. Floryan, M. Asai
FM13L_10525	Stability of Lagrangian Ideal Flows	Stephane Leblanc
FM13L_10640	Instability Thresholds of Flow Between Exactly Counter - Rotating Disks	C. Nore, M. Tartar, O. Daube, L. S. Tuckerman
FM13L_10916	Transient Growth in Developing Plane and Hagen Poiseuille Flow	Peter W. Duck
FM13L_11186	Three-dimensional Global Modes in Spatially Varying Rayleigh-Benard-Poiseuille Convection	Denis Martinand, Philippe Carriere, Peter A. Monkewitz
FM13L_11396	Elliptical Instability in a Rotating Spheroid	Laurent Lacaze, Staphane Le Dizes, Patrice Le Gal
FM13L_11461	The Instability of a Localized Vortex Disturbance in Uniform Shear Flow	Jacob Cohen, Victoria Suponitsky, Pinhas Z. Bar-Yoseph
FM13L_11647	Subcritical Transition to Turbulence in Plane Couette Flow	Maher Lagha, Paul Manneville

FM13L_11995	Three - Dimensional Vortex Breakdown in Swirling Jets and Wakes	M. R. Ruith, P. Chen, E. Meiburg, T. Maxworthy
FM13S_12150	A New Convective Instability with Growth Normal to a Boundary Layer	J.J. Healey
FM13L_12233	By-pass Laminar - Turbulent Transition of the Wind - Driven Free Surface Flow	Guillemette Caulliez, Richard Dupont, Victor I. Shrira
FM13L_12250	Large - Eddy Simulation of the Transitional Flow in Natural Convection in a Horizontal Annulus	Elie L. M. Padilla, Aristeu Silveira - Neto
FM13S_12280	Influence of Swirl Vibrations on Flow in Long Cylinder	Denis S. Goldobin, Dmitry V. Lyubimov
FM13S_12291	Nonlinear Stability of Rotating Channel Flow	M. Nagata, D.P. Wall, T. Mitsumoji
FM13L_12372	On Instability Mechanisms in a Separating Boundary-layer Flow	Matthieu Marquillie, Uwe Ehrenstein, Francois Gallaire
FM13S_12381	Gortler Vortex Secondary Stability: Varicose Mode	Leandro F. Souza, Marcio T. Mendonca, Marcello A. F. Medeiros, Markus J. Kloker
FM13L_12425	Spiral Vortex Breakdown as a Global Mode	Michael Ruith, Francois Gallaire, Jean-Marc Chomaz, Patrick Huerre, Eckart Meiburg
FM13L_12431	Computational Study of Turbulent - Laminar Bands in Couette Flow	Dwight Barkley, Laurette S. Tuckerman
FM13L_12483	A Generic Mechanism for By - Pass Transition in Vortices	Arnaud Antkowiak, Pierre Brancher
FM13S_12508	Global Stability of the Flow Induced by Wall Injection	Thierry Feraille, Gregoire Casalis
FM13L_12509	Acoustic Field Generated by Instability Waves in the Transonic Regime	Christophe Millet, Stephane Le Dizes
FM13L_12542	Nonlinear Transition of a Flow Driven by a Rotating Magnetic Field	Ilmars Grants, Gunter Gerbeth

FM13S_12711 Fully Nonlinear Global Modes and Transition to Turbulence Jean - Marc Chomaz
in Open Flows

FM13S_12766 Stability of Plane Poiseuille Flow and Energy Growth Cherif Nouar, Nadjiba Kabouya,
in the Case of a Bingham Fluid Jan Dusek, Aziz Salem

FM13S_13019 Instability of the Far Wake Behind a Wind Turbine Valery L. Okulov, Jens N.
Sorensen
