

OS15: Vortex Motion

EX-1

November 9, 2018

9:00-9:20 OS15-1

Numerical Study on a Flue Organ Pipe with Compressible LES Focusing on the Role of the Foot Chamber

S. Tateishi, S. Iwagami, G. Tsutsumi, T. Kobayashi, T. Takami, K. Takahashi

9:20-9:40 OS15-2

Mode Jump of Edge Tone Captured by Direct Numerical Simulation

S. Iwagami, T. Kobayashi, K. Takahashi, Y. Hattori

9:40-10:00 OS15-3

Numerical Simulation of Porous Wing and Flap: Aerodynamic Performance and Noise Reduction

T. Watarai, Y. Hattori

10:00-10:20 OS15-4

Modeling of Porous Materials for Numerical Study of Aeroacoustic Noise Reduction

Y. Sato, Y. Hattori

10:20-10:40 OS15-5

Generation of Vorticity and its Influence on the Stability of a Premixed Flame Front of a Compressible Flow

Y. Fukumoto, K. Wada, S. Abarzhi

10:40-11:00 OS15-6

Shape Optimization for Suppressing the Amplitude of the Time Periodic Flow By using POD

T. Nakazawa

11:00-11:20 OS15-7

Suppression of Instability in Boundary Layer on Swept Wing by DRE

T. Hayashida, M. Hirota, Y. Hattori

11:20-11:40 OS15-8

Suppression Mechanism of Crossflow Vortices in a Three-dimensional Boundary Layer by Triggering Less Unstable Modes

M. Hirota, Y. Hattori

11:40-12:00 OS15-9

Optimal Control of Görtler Vortices in a High-Reynolds Number Asymptotics Framework

A. Sescu, M.Z. Afsar

13:10-13:50 OS15-10

Invited

Theoretical Results on Compressible Vortex Streets

D. Crowdy, V. Krishnamurthy

13:50-14:30 OS15-11

Invited

Rotor Generated Vortices: Structure and Stability

E. Duran-Venegas, S. Le Dizès

14:50-15:30 OS15-12

Invited

Dynamics of Helical Vortex Systems

I. Delbende

15:30-16:10 OS15-13

Invited

Experiments on Helical Vortices Behind Rigid and Flexible Rotors

T. Leweke, H.U. Quaranta, M. Ringuet

16:30-16:50 OS15-14

Investigation on Effect of Surface Shape of Inflatable Wing using 3D Immersed Boundary Method

T. Imai, T. Nagata, S. Takahashi, K. Fukuda

16:50-17:10 OS15-15

A Key Flow and its Flow Scale for Vortex Birth in Isotropic Homogeneous Turbulence

K. Nakayama, D. Aoyama

17:10-17:30 OS15-16

Statistical Mechanics of Kida vortex: An Effect of Singularity in Noncanonical Hamiltonian System

N. Sato, Z. Yoshida, P.J. Morrison

17:30-17:50 OS15-17

An Overview of Generalized Contour Dynamics

S.G. Llewellyn Smith