

OS16: Vortex Motion

October 29, 2020
ROOM8 (Zoom Webinar)

- OS16-1 **Modeling of Nonlinear Crossflow Instability in Three-dimensional Boundary Layer**
9:20-9:40 Makoto Hirota (Tohoku University, Japan), Yuki Ide (Japan Aerospace Exploration Agency, Japan), Yuji Hattori (Tohoku University, Japan),
- OS16-2 **Control of Streamwise Vortices Developing in Compressible Boundary Layers**
9:40-10:00 Omar Es-Sahli, Adrian Sescu (Mississippi State University, USA), Mohammed Z. Afsar (University of Strathclyde, UK), Yuji Hattori, Makoto Hirota (Tohoku University, Japan)
- OS16-3 **Shape Optimization Problem for suppressing Time Fluctuation Part of Transient Non-Newtonian Fluid**
10:00-10:20 Takashi Nakazawa (Osaka University, Japan), Notsu Hirofumi (Kanazawa University, Japan)
- OS16-4 **An Invariant Key Flow for Vortex Generation in Terms of Local Flow Geometry**
10:20-10:40 Katsuyuki Nakayama, Sho Saeki, Keita Kondoh (Aichi Institute of Technology, Japan), Yuji Hattori (Tohoku University, Japan)
- OS16-5 **Topological Invariants and Nambu Brackets in Fluid Mechanics and Magnetohydrodynamics**
11:10-11:30 Yasuhide Fukumoto (Kyushu University, Japan), Rong Zou (Zhejiang Normal University, China)
- OS16-6 **Numerical Analysis of Air-Jet Instrument's Sound Sources by Compressible Direct Numerical Simulation**
11:30-11:50 Ryoya Tabata, Sho Iwagami (Kyushu Institute of Technology, Japan), Taizo Kobayashi (Kyushu University, Japan), Ki'nya Takahashi (Kyushu Institute of Technology, Japan), Yuji Hattori (Tohoku University, Japan)
- OS16-7 **Reduction of Aeroacoustic Sound using Porous Materials: Comparison between Macroscopic and Microscopic Models**
11:50-12:10 Yuji Hattori, Yasunori Sato (Tohoku University, Japan)