

# Program

- Chair : Gouhei Tanaka / Nagoya Institute of Technology
- 09:30 - 10:05** **Opening Remarks**  
Gen Sobue / Aichi Medical University  
Takao Hensch / The University of Tokyo  
Kazuyuki Aihara / The University of Tokyo
- 10:05 - 10:40** **Shun-ichi Amari** / Teikyo University  
Wasserstein Statistics
- 10:50 - 11:25** **Klaus-R. Müller** / Technische Universität Berlin  
Machine Learning and AI  
for the Sciences: toward understanding
- 11:25 - 12:00** **James A. Yorke** / University of Maryland  
What is the graph of a dynamical system?
- Chair : Takamitsu Watanabe / The University of Tokyo
- 13:30 - 14:05** **Leon Glass** / McGill University  
Using Mathematics to Diagnose, Cure,  
and Predict Cardiac Arrhythmias
- 14:05 - 14:40** **Shigenobu Kanba** / Kyushu University  
Multifactorial Nature of Psychiatric Disorders
- 14:40 - 15:15** **Kohei Miyazono** / The University of Tokyo  
TGF- $\beta$  family signaling in cancer invasion  
and metastasis
- Chair : Tetsushi Ueta / Tokushima University
- 15:30 - 16:05** **Celso Grebogi** / University of Aberdeen  
Tipping Point Impacted by Multiplexity  
in Mutualistic Ecological Networks
- 16:05 - 16:40** **Henk Nijmeijer** / Eindhoven University of Technology  
Synchronization of multiple oscillators,  
the role of coupling and geometry
- 16:40 - 17:15** **Jürgen Kurths** / Potsdam Institute for Climate Impact Research  
Forcing of teleconnections among tipping elements  
in the climate system
- 17:15 - 17:25** **Closing of the talk session**
- Chair : Shinji Nakaoka / Hokkaido University
- 17:40 - 20:10** **Poster Session with meal**
- 20:10 - 20:20** **Closing**