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OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY
沖縄科学技術大学院大学

THEORETICAL SCIENCES VISITING PROGRAM

TSVP TALK

TIME IRREVERSIBILITY IN TURBULENCE

2022
THU. DEC. 15TH

16:00 - 17:00

HYBRID L4E48, ZOOM



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Turbulence is a system far from equilibrium in which energy is supplied at large scale and dissipated at much smaller scales. This fundamental property is reflected in the time irreversibility of a turbulent flow. In this talk I will review recent results on the irreversibility of turbulence from the point of view of a single particle and how the asymmetry depends on the Reynolds number. The relevance of these results for modeling particles in turbulence will also be discussed.

UNIVERSITY OF TORINO

GUIDO BOFFETTA

Guido Boffetta is professor of theoretical physics of matter at the University of Torino (Italy). He works in fluid dynamics, in particular turbulence, turbulent convection, and mixing. He is fellow of the European Mechanics Society and associate editor of Physical Review Fluids (APS).

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CONTACT

FAO (Faculty Affairs Office)



tsvp@oist.jp