



19-23 MAY 2025

La Roccia, Castro LE

III BILATERAL WORKSHOP

SMART-TURB SMART-HEART

Organizers: Luca Biferale and Liù Maria Catena



The idea of the Workshop is to have 4 days of discussions about the themes of interests of the two projects. Round tables and brainstorming sections about hidden symmetry in turbulence, data assimilation for geophysical and bio-medical complex flows, Lagrangian control of single and multi-agents systems, with applications to odor searches emitted from point and distributed sources. Problems connected to micro and nano-fluidics applications, relativistic fluid dynamics and statistics will also be discussed. Participation is upon invitation only.

PROGRAMME:

MONDAY 19

13.00-15.00 WELCOME

15.00-16.30 **L. BIFERALE** - PRESENTATION OF THE ACTIVITIES OF THE PROJECTS SMART-TURB AND SMART-HEART

16.30-17.30 COFFEE BREAK

17.30-18.30 OPEN DISCUSSION AND FEEDBACK FROM ALL PARTICIPANTS

20.00 DINNER

TUESDAY 20

09.00-10.00 BREAKFAST

10.30-12.30 PRESENTATIONS BY **C. CALASCIBETTA, M. CARBONE & L. PIRO** + OPEN DISCUSSION AND FEEDBACK

12.30-14.30 LUNCH BREAK AND ROUND TABLE

14.30-16.30 PRESENTATIONS BY **E. BELLANTONI, A. FREITAS & F. FOSSELLA** + OPEN DISCUSSION AND FEEDBACK

16.30 -17.30 COFFEE BREAK

17.30-18.30 OPEN DISCUSSION AND FEEDBACK FROM ALL PARTICIPANTS

20.00 DINNER

WEDNESDAY 21

09.00-10.00 BREAKFAST

10.30-12.30 PRESENTATIONS BY **N. COCCIAGLIA & A.S. LANOTTE** + OPEN DISCUSSION AND FEEDBACK

12.30-14.30 LUNCH BREAK AND ROUND TABLE

14.30-16.30 PRESENTATIONS BY **G. PARISE, P. PROIA & D. SIMEONI** + OPEN DISCUSSION AND FEEDBACK

16.30 -17.30 COFFEE BREAK

17.30-18.30 OPEN DISCUSSION AND FEEDBACK FROM ALL PARTICIPANTS

20.00 DINNER

THURSDAY 22

09.00-10.00 BREAKFAST

10.30-12.30 PRESENTATIONS BY **M. BUZZICOTTI, F. GUGLIETTA AND M. SCARPOLINI** + OPEN DISCUSSION AND FEEDBACKS

12.30-14.30 LUNCH BREAK AND ROUND TABLE

14.30-16.30 PRESENTATIONS BY **F. PELUSI, M. SBRAGAGLIA & A. SCAGLIARINI** + OPEN DISCUSSION AND FEEDBACK

16.30 -17.30 COFFEE BREAK

17.30-18.30 OPEN DISCUSSION AND FEEDBACK FROM ALL PARTICIPANTS

FRIDAY 23

09.00-10.00 BREAKFAST AND CONCLUSIONS

INVITED PARTICIPANTS:

Elisa Bellantoni (Cyprus Institute, Cyp)
Luca Biferale (UTOV Rome, Ita)
Michele Buzzicotti (UTOV Rome, Ita)
Chiara Calascibetta (INRIA Nice, Fra)
Maurizio Carbone (CNR-ISC Rome, Ita)
Niccolo Cocciaglia (UTOV, Ita)

Fabio Guglietta (UTOV Rome, Ita)
Andre Freitas (UTOV, Ita)
Francesco Fossella (Paris Telecom, Fra)
Alessandra S. Lanotte (CNR Nanotec Lecce, Ita)
Gianmarco Parise (INFN, Frascati, Ita)
Francesca Pelusi (CNR-IAC Rome, Ita)
Paolo Proia (UTOV, Ita)

Lorenzo Piro (UTOV Rome, Ita)
Mauro Sbragaglia (UTOV Rome, Ita)
Andrea Scagliarini (CNR-IAC Rome, Ita)
Martino Scarpolini (GSSI, L'Aquila, Ita)
Daniele Simeoni (UTOV Rome, Ita)