

A SERIES OF SEMINARS ON MODERN PROBLEMS IN TURBULENCE



PROF. GREGORY EYINK (JHU, BALTIMORE USA)

H. 15.00 - 16.30

TOR VERGATA: SALA GRASSANO DEPT. PHYSICS
VIA DELLA RICERCA SCIENTIFICA 1, 00133 ROMA

SAPIENZA: FACULTY OF ENGINEERING SAN PIETRO IN VINCOLI, SALA DEGLI AFFRESCHI (CHIOSTRO)
VIA EUDOSSIANA 18, 00184 ROMA

[Link to registration](#)

PART I: FOUNDATIONS

4 Oct. 2024
15.00 - 16.30

University of Rome Tor Vergata
Dept. of Physics, Aula Grassano

Seminar 1. A Survey of Critical Experiments on Turbulence
Seminar 2. Does the Continuum Navier-Stokes Equation Describe Turbulence?

PART II: TURBULENCE AWAY FROM THE WALL

11 Oct. 2024
15.00 - 16.30

University of Rome La Sapienza
Fac. of Eng. Sala degli Affreschi

Seminar 3. Onsager's Ideal Turbulence Theory
Seminar 4. The Local, Deterministic 4/5 Law

18 Oct. 2024
15.00 - 16.30

University of Rome Tor Vergata
Dept. of Physics, Aula Grassano

Seminar 5. Lagrangian Spontaneous Stochasticity
Seminar 6. Turbulent Vorticity Dynamics

25 Oct. 2024
15.00 - 16.30

University of Rome La Sapienza
Fac. of Eng. Sala degli Affreschi

Seminar 7. Eulerian Spontaneous Stochasticity

PART III: TURBULENCE INTERACTION WITH WALLS

8 Nov. 2024
15.00 - 16.30

University of Rome Tor Vergata
Dept. of Physics, Aula Grassano

Seminar 8. Drag and the Josephson-Anderson Relation
Seminar 9. Vorticity Interactions with Solid Walls and Flow Separation

15 Nov. 2024
15.00 - 16.30

University of Rome La Sapienza
Fac. of Eng. Sala degli Affreschi

Seminar 10. Turbulent Vorticity-Wall Interactions and Lighthill's Mechanism
Seminar 11. Onsager Cascades in Wall-Bounded Turbulence

6 Dec. 2024
15.00 - 16.30

University of Rome Tor Vergata
Dept. of Physics, Aula Grassano

Seminar 12. Strong-Weak Uniqueness and Extreme Wall Events