

# Fermi-Pasta-Ulam-Tsingou 70 Years Later: Slow Dynamics in Classical and Quantum Physics | (smr 4178)

Monday, 10 November 2025

08:30 - 09:00 Registration Formalities

*REGISTRATION: Upon arrival, Visitors not staying in the ICTP Guest Houses, are kindly requested to complete registration formalities at the Leonardo Building (Lobby). The Registration Desk will be open in the morning starting from 8:30.*

09:00 - 21:40

09:00 **A mean-field theory of effective normal modes in the Fermi-Pasta-Ulam-Tsingou model 40'**

Speaker: Marco BALDOVIN (CNR-ISC)

Material: [Abstract](#)

09:40 **Wave Turbulence approach to the FPUT system 40'**

Speaker: Miguel ONORATO (Università di Torino)

Material: [Abstract](#)

10:20 **Coffee Break 40'**

11:00 **Eigenstate Thermalization and Free probability 40'**

Speaker: Laura FOINI (Institut de Physique Théorique, CEA Saclay)

Material: [Abstract](#)

11:40 **From weak to strong ergodicity breaking: rethinking the out of equilibrium dynamics in glassy systems 40'**

Speaker: Federico Ricci TERSENGHI (Università La Sapienza)

Material: [Abstract](#)

12:30 **Lunch Break 1h30'**

14:00 **Energy transport in FPUT chains 40'**

Speaker: Roberto LIVI (Università di Firenze & INFN)

Material: [Abstract](#)

14:40 **Localization and "classical entanglement" in the Discrete Non-Linear Schrödinger Equation 40'**

Speaker: Martina GIACHELLO (GSSI)

Material:  **Abstract**

15:20 **Coffee Break 20'**

15:40 **The search for integrability in the FPU(T) model 40'**

Speaker: Giancarlo BENETTIN (Università di Padova)

Material:  **Abstract**

16:20 **From FPU1955 to Wealth thermalization 40'**

Speaker: DIMA SHEPELYANSKY (Laboratoire de Physique Théorique CNRS)

Material:  **Abstract**

19:00 **Welcome Reception 2h0'**

*All Participants are cordially invited to the Welcome Reception.*

*Location: Leonardo Building Cafeteria*

## Tuesday, 11 November 2025

09:00 - 16:20

09:00 **Thermalization Universality Classes 40'**

Speaker: Sergej FLACH (Institute for Basic Science)

Material:  **Abstract**

09:40 **TBA 40'**

Speaker: Boris ALTSHULER (Columbia University)

10:20 **Coffee Break 40'**

11:00 **Higher orders of perturbation series in classical mechanics 40'**

Speaker: Eugene BOGOMOLNYI (Université Paris-Saclay)

Material:  **Abstract**

11:40 **Quantum Mpemba effect 40'**

Speaker: Pasquale CALABRESE (SISSA)

Material:  **Abstract**

12:30 **Lunch Break 1h30'**

14:00 **Geometric properties of the microcanonical surface in the Discrete Non-Linear Schrödinger equation 40'**

Speaker: Claudio AREZZO (ICTP)

Material:  **Abstract**

14:40 **Subdiffusive spin transport in disordered classical Heisenberg chains 40'**

Speaker: Federico BALDUCCI (MPIPKS)

Material:  **Abstract**

15:20 **Coffee Break 20'**

15:40 **Burgers equation and the Fermi-Pasta-Ulam-Tsingou lattice 40'**

Speaker: Stefano RUFFO (CNR-ISC)

Material:  **Abstract**

## Wednesday, 12 November 2025

09:00 - 14:00

09:00 **Lax dynamics 40'**

Speaker: Stefano LEPRI (CNR-ISC)

Material:  **Abstract**

09:40 **Matter-wave solitons in optical lattices 40'**

Speaker: Luca SALASNICH (Università di Padova)

Material:  **Abstract**

10:20 **Coffee Break 40'**

11:00 **Thermalization and typicality in integrable systems 40'**

Speaker: Dario LUCENTE (Università della Campania)

Material:  **Abstract**

11:40 **Slow thermalization in FPUT and Quantum Lattice Systems 40'**

Speaker: Matteo GALLONE (Università Milano)

Material:  **Abstract**

12:30 **Lunch Break 1h10'**

13:40 **Group Photo 20'** ( Leonardo Building - Budinich Lecture Hall )

14:00 - 16:30

ICTP Colloquium by Angelo VULPIANI

*The Colloquium will be livestreamed at: [ictp.it/livestream](https://ictp.it/livestream)*

14:00 **Noise and Climate Dynamics 2h0'** ( Leonardo Building - Budinich Lecture Hall )

Speaker: Angelo VULPIANI (Università La Sapienza)

16:00 **Refreshments 30'**