

20 - 24 April
2026

WORKSHOP

Aula Dini

Via del Castelletto, 17/1
Scuola Normale Superiore
PISA

ORGANIZERS COMMITTEE

Alice Valença de Lorenci
(Imperial College London)

Deniz Eroglu
(Kadir Has Üniversitesi)

Jeroen Lamb
(Imperial College London)

Stefano Marmi
(Scuola Normale Superiore)

Tiago Pereira
(ICMC, Universidade de São Paulo)

Matteo Tanzi
(King's College London)

ONE-DIMENSIONAL DYNAMICS AND HIGH-DIMENSIONAL NETWORK SYSTEMS

This conference aims to unite researchers in dynamical systems, fostering interdisciplinary exchange between experts in one- and low-dimensional dynamics, and those working on high-dimensional networked systems. The study of high-dimensional systems, particularly dimension reduction in network dynamics, has greatly benefited from insights from one-dimensional dynamics. Conversely, the field of complex dynamics has recorded a great activity in the push of low-dimensional descriptions to higher dimensions. By bringing together diverse perspectives, we seek both to explore recent advancements at the established intersection between these areas, and to uncover new connections.

CONFIRMED SPEAKERS

ANNA MIRIAM BENINI
(Università di Parma)

FABRIZIO BIANCHI
(Università di Pisa) - *On line talk*

HENK BRUIN
(Universität Wien)

KOSTIANTYN DRACH
(Universitat de Barcelona, CRM-Barcelona)

NÚRIA FAGELLA
(Universitat de Barcelona, CRM-Barcelona)

BASTIEN FERNANDEZ
(LPSM, CNRS)

ALE JAN HOMBURG
(Universiteit van Amsterdam)

JEROEN LAMB
(Imperial College London)

LUNA LOMONACO
(IMPA) - *On line talk*

STEFANO LUZZATTO
(ICTP)

STEFANO MARMI
(Scuola Normale Superiore)

MARCO MARTENS
(Stony Brook University)

LIVIANA PALMISANO
(KTH)

LETICIA PARDO-SIMON
(Universitat de Barcelona, CRM-Barcelona)

TIAGO PEREIRA
(ICMC, Universidade de São Paulo)

DAVID RAND
(University of Warwick)

LASSE REMPE
(University of Liverpool)

GUSTAVO RODRIGUES FERREIRA
(CRM-Barcelona)

EDMILSON ROQUE
(Max Planck Institute, Dresden)

WEIXIAO SHEN
(SCMS)

LEON STARESINIC
(Universität Zürich)

DMITRY TURAEV
(Imperial College London)

CORINNA ULCIGRAI
(Universität Zürich)

ANNA ZDUNIK
(Uniwersytet Warszawski)

WEB SITE:

<https://indico.sns.it/event/130/>

Please note that for organizational purposes,
registration is mandatory



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INFO

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2026
Centro
di Ricerca
Matematica
Ennio De Giorgi



- FAPESP/UKRI-EPSC grants 2023/13706-0 and EP/Z533658/1 titled Predicting Critical Transitions in Complex Dynamical Networks: Reduction and Learning
- Serrapilheira Institute Fellowship (Grant No. Serra-1709-16124) titled Reconstructing Complex Networks from Data
- UKRI-EPSC grant EP/Z002656/1 titled Reconnect - Data-driven network dynamics reconstruction to predicting critical transitions: a random dynamics approach
- "Dynamics and Information Research Institute – Quantum Information (Teoria dell'Informazione), Quantum Technologies", in the framework of the agreement signed by Unicredit Bank and Scuola Normale on July 31st 2014
- UKRI-EPSC grant number UKRI1021 "Strongly Coupled Maps: Thermodynamic Limits and Rates of Convergence"
- "BeyondTheEdge: Higher-Order Networks and Dynamics" is funded by the European Union under REA Grant Agreement No. 101120085