



# WINTER PHD SCHOOL ON *STATISTICAL FIELD THEORIES*

*The Galileo Galilei Institute for Theoretical Physics  
Arcetri, Firenze*

**February 2-13, 2026**

This school is meant for PhD students with interest in low-dimensional quantum field theory, conformal field theory and integrable models, and their applications to statistical mechanics and condensed matter systems. Postgraduate courses covering introductory topics as well as recent developments are provided.

Lectures are scheduled each morning, for a total amount of about forty hours, over two weeks. Presentations are given on the blackboard. The afternoon is devoted to study and discussion. A desk and standard research facilities are made available to all participants.

The school can admit up to forty participants. Help for finding accommodation in agreed hotels can be provided upon request, as well as financial support for this cost.

The courses can be included in the PhD curricula of Italian Universities and abroad. If necessary, exams for each course can be taken. Lectures will be recorded and posted on the GGI YouTube channel.

## **Lecturers**

**Bernard Derrida** (*Collège de France*): Large deviations of non-equilibrium diffusive systems

**Jérôme Dubail** (*Université de Strasbourg*): An introduction to Conformal Field Theory

**Gregory Falkovich** (*Weizmann Institute of Science*): An Introduction to Information Theory

**Paul Fendley** (*University of Oxford*): The basics of non-invertible symmetries

**Maria Vozmediano** (*ICM - CSIC, Madrid*): Thermal transport, geometry, and anomalies

**Organizers:** *V. Alba, J. Dubail, C. Morais-Smith, A. Trombettoni*

**Advisory Board:** *D. Bernard, P. Calabrese, A. Cappelli, F. Colomo, F. Essler, G. Mussardo*

**Deadline for application:** November 15, 2025

**Webpage:** <https://www.ggi.infn.it/showevent.pl?id=551>