

WINTER PHD SCHOOL ON *STATISTICAL FIELD THEORIES*

The Galileo Galilei Institute for Theoretical Physics
Arcetri, Firenze

February 3-14, 2020

Organizers:

D.Bernard, P.Calabrese, A.Cappelli, F.Colomo, F.Essler, C.Morais-Smith, G.Mussardo

The school will offer postgraduate lectures on topics of low-dimensional quantum field theory, conformal field theory and integrable systems, together with their applications to statistical mechanics and condensed matter systems. Introductory subjects as well as recent advances will be covered.

The school can admit up to forty participants. Accommodation for two weeks in twin rooms will be provided for a total price of about 400 €. Financial support to accommodation expenses may be provided, upon request, to about thirty participants.

The courses can be included in the PhD curricula of Italian Universities and abroad. If necessary, a final exam on the courses can be taken.

Lecturers

A. G. Abanov (Stony Brook University): “Topology and geometry in condensed matter physics. Toy models”

V. Khemani (Stanford University): “Topology and symmetry breaking in periodically driven systems”

J. Moore (UC Berkeley): “Introduction to topological phases of electrons”

G. Mussardo (SISSA, Trieste): “Two-dimensional conformal field theory: a primer”

P. Verrucchi (CNR, Florence): “Quantum processes: from quantum computation to many-body physics, and back”

Deadline for application: November 15, 2019

Web-page: <http://theory.fi.infn.it/SFTschool/>, <http://www.ggi.infn.it/>