



The Abdus Salam  
International Centre  
for Theoretical Physics



# Workshop on Localization and Ergodicity

## Description:

The workshop's aim is to bring together leading experts and junior scientists focusing on ergodicity breaking and localization in many-body and random-matrix context. We mostly focus on the recent developments in the above fields and their promising applications in quantum technologies and computing, including (but not limited to) the quantum memory based on the many-body localization, the enhancement of superconducting properties of the materials at the metal-insulator transition, and the quantum annealing speed-up within the ergodicity-broken phases of matter.

## SPEAKERS:

M. AIZENMAN  
Princeton University, USA  
I. ALEINER  
Columbia University, USA  
M. AMINI  
The University of Isfahan, Iran  
D. M. BASKO  
LPMMC CNRS, France  
E. BOGOMOLNY  
LPTMS CNRS, France  
J. CHALKER  
Oxford University, UK  
L. CUGLIANDOLO  
LPTHE CNRS, France  
M. DALMONTE  
ICTP, Italy  
B. DERRIDA  
LPS ENS CNRS, France  
M. FABRIZIO  
SISSA, Italy  
V. FALKO  
University of Manchester, UK  
R. FAZIO  
ICTP, Italy  
M. V. FEIGELMAN  
NANOCENTER, Slovenia / Landau ITP, Russia  
S. FLACH  
Institute For Basic Science, South Korea  
S. FRANZ  
LPRMS CNRS, France  
Y. V. FYODOROV  
King's College, UK  
Y. GEFEN  
Weizmann University, Israel  
V. GRITSEV  
University of Amsterdam, Netherlands  
A. KAMENEV  
University of Minnesota, USA

J. KURCHAN  
LPS ENS CNRS, France  
M. MUELLER  
PSI, Switzerland  
G. MUSSARDO  
SISSA, Italy  
K. A. MUTTALIB  
University of Florida, USA  
M. ORTUÑO ORTÍN  
University of Murcia, Spain  
M. PINO  
University of Salamanca, Spain  
V. POKROVSKY  
Texas A&M College of Arts and Sciences, USA  
A. POLKOVNIKOV  
Boston University, USA  
V. ROS  
LPTMS CNRS, France  
B. SACEPE  
Institut Neel CNRS, France  
M. TARZIA  
LPTMC CNRS, France  
O. M. YEVTUSHENKO  
FAU & MPL, Germany  
A. TSVELIK  
Brookhaven National Lab, USA  
A. VARLAMOV  
SPIN-CNR, Italy  
S. WARZEL  
TU Munich, Germany  
I. YURKEVICH  
Aston University, UK  
E. A. YUZBASHYAN  
Rutgers University, USA  
R. ZECCHINA  
Bocconi University, Italy  
M. ZIRNBAUER  
University of Koeln, Germany



26 - 30 August 2024



Trieste, Italy



Deadline:

21 April 2024

## DIRECTORS:

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## LOCAL ORGANISER:

A. SCARDICCHIO, ICTP, Italy

## GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

## FURTHER INFORMATION:



E-mail: [smr3964@ictp.it](mailto:smr3964@ictp.it)

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Female scientists are encouraged to apply.

