



The Abdus Salam
International Centre
for Theoretical Physics



Beyond Uniform Hyperbolicity I: Higher rank actions, random walks and holomorphic dynamics

DESCRIPTION:

The meeting belongs to a series of conferences organized since 2001 (Bedlewo, Poland (2023 and 2013), Luminy, France (2019 and 2011) Provo, USA (2017), Olmué, Chile (2015), Beijing, China (2009), Chicago, IL, USA (2006), Búzios, Brazil (2003), Evanston, USA (2001)). They have been instrumental for collaborations among the participants, furthering the subject and leading to new connections between different directions in the field.

TOPICS:

Partial hyperbolicity, Nonuniform hyperbolicity, Lyapunov exponents | Bifurcations: homoclinic tangencies, heterodimensional cycles | Typical phenomena: robustness, genericity, prevalence | Physical and Sinai-Ruelle-Bowen measures | Dimension theory, Thermodynamical Formalism | Statistical properties: decay of correlations, limit theorems | Symbolic dynamics, entropy, coding | Classification of dynamical systems, group actions and rigidity phenomena.

FURTHER INFORMATION:

sites.google.com/view/beyonduniformhyperbolicity2025/

MINI-COURSES:

- *Thermodynamic formalism in holomorphic dynamics*: Fabrizio Bianchi (Università di Pisa, Italy) and Mary Yan He (University of Oklahoma, USA)
- *Random walks on projective spaces*: Jialun Li (Ecole Polytechnique, France) and Wenyu Pan (University of Toronto, Canada)
- *Rigidity of abelian actions*: Kurt Vinhage (University of Utah, USA)

MORE DETAILS:

The related Beyond Uniform Hyperbolicity II: [Unstable entropy, generalized u-Gibbs measures and classification complexity \(smr 4157\)](#) will take place the week after, from 9 to 13 June 2025.

Applications need to be made separately here: <https://indico.ictp.it/event/10935/>
Participants selected for both will receive a joint invitation letter.



2 - 6 June 2025



Trieste, Italy

Application and Deadlines:



For applicants requesting financial and/or visa support:

9 February 2025

For all other applicants:

25 May 2025

ORGANISERS:

J. Bochi, Penn State University, USA
D. Damjanovic, KTH, Sweden
K. Gelfert, Universidade Federal do Rio de Janeiro, Brazil
A. Gogolev, Ohio State University, USA
A. Hammerlindl, Monash University, Australia
A. Kocsard, IMPA, Brazil
R. Potrie, Universidad de la República, Uruguay
M. Triestino, Université de Bourgogne, France
D. Xu, Great Bay University, China

LOCAL ORGANISER:

S. Luzzatto, 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.

TO SUBMIT YOUR APPLICATION:



Web: <https://indico.ictp.it/event/10841/>

E-mail: smr4076@ictp.it

Female scientists are encouraged to apply.



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