

# Workshop on Stochastic Thermodynamics - WOST IV

**19 - 26 May 2023**  
**An ICTP Virtual Meeting**  
**Trieste, Italy**

Stochastic thermodynamics has revolutionized our understanding of far-from-equilibrium statistical physics over the last few decades and continues to result in profound, powerful results, ranging from fluctuation theorems to speed-limit theorems to thermodynamic uncertainty relations.

## Description:

With this series of online workshops, we aim to provide a platform to everyone with an interest in stochastic thermodynamics to present and discuss their current research, fostering collaboration among communities and promoting the field to a broad range of scientists. We aim to have a wide-ranging cross-section of the stochastic thermodynamics community present their current research in one forum. We aim to support academics from under-represented groups working in the field, and we especially encourage junior researchers to submit their work for 10 minute lightning talks.

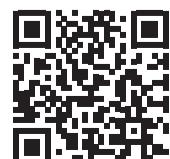
## Topics:

- Fundamental Principles
- Physics and Chemistry
- Computation and Information Processing
- Quantum Stochastic Thermodynamics
- Biophysics and Active Matter

## How to apply:

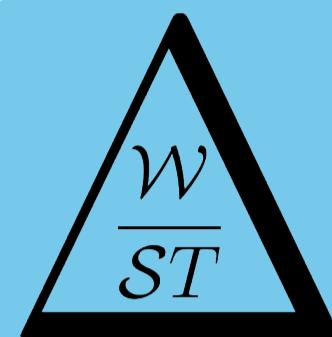
Online application:  
<http://indico.ictp.it/event/10171/>

Female scientists are encouraged to apply.



## Registration:

There is no registration fee.



Further information:  
<http://indico.ictp.it/event/10171/>  
smr3837@ictp.it

## Directors:

D. DAS, ICTP  
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U. SEIFERT, Universitat Stuttgart  
H. WILMING, Leibniz Universität Hannover  
D. WOLPERT, SFI  
C. YALCIN, Istanbul University

## Local Organiser:

E. ROLDÁN, ICTP

## Speakers:

**TUTORIALS**  
M. ESPOSITO, U Luxembourg  
H. TOUCHETTE, Stellenbosch University  
V. BALASUBRAMANIAN, UPenn

**FUNDAMENTAL PRINCIPLES**  
Colloquium: E. ROLDÁN, ICTP  
A. GODEC, MPI NAT  
S. DAGO, ENS Lyon  
O. MOVILLA MIANGOLARRA, UC Irvine  
J. KORBEL, CSH Vienna

**PHYSICS & CHEMISTRY**  
Colloquium: H. QIAN, U Washington  
J. BECHHOEFER, Simon Fraser U  
D. BUSIELLO, MPIPKS  
S. ITO, Tokyo U  
A. DUTTA, IISER Tirupati

**COMPUTATION AND INFORMATION PROCESSING**  
Colloquium: J. BAEZ, UC Riverside  
Y. ABATE, U Georgia  
G. KARDEŞ, CU Boulder  
A. DEL CAMPO, U Luxembourg  
S.-I. SASA, Kyoto U

**QUANTUM STOCHASTIC THERMODYNAMICS**  
Colloquium: S. DEFFNER, UMBC  
K. BRANDNER, U Nottingham  
O. COSMAS ABAH (QUB)  
D. SEGAL, U Toronto  
N. YUNGER HALPERN, U Maryland  
O. C. ABAH, QUB

**BIOPHYSICS AND ACTIVE MATTER**  
Colloquium: C. MAES, KU Leuven  
N. FAKHRI, MIT  
M. HINCZEWSKI, CWRU  
P. R. TEN WOLDE, AMOLF  
R. RAO, IAS

## Deadline:

for applicants submitting an abstract

**15 March 2023**

for all other applicants

**12 May 2023**



The Abdus Salam  
**International Centre  
for Theoretical Physics**

[www.ictp.it](http://www.ictp.it)  
Trieste, Italy

