

## WOST VII (2026) - Detailed Schedule

Note: all times are in CEST (GMT +2)



### Monday 18th May

## Theoretical foundations of stochastic thermodynamics

Session Chair: Aljaž Godec / Tan Van Vu

2:15 pm – Welcome (David Sivak), WIST initiative (Sarah Loos)

2:30 pm – Invited talk

Jae Sung Lee: Unified Hierarchy of Fluctuation-Response Identities and Inequalities in Nonequilibrium Markovian Dynamics

2:00 pm – Invited talk

Johannes Zimmer: Reversibility, covariance and coarse-graining for Langevin dynamics

3:30 pm – Lightning talk

Ryuna Nagayama: Duality between dissipation-coherence trade-off and thermodynamic speed limit for noisy limit cycles

3:45 pm – Lightning talk

Yoh Maekawa: Housekeeping-excess decomposition of information flow

4:00 pm – *break*

4:15 pm – Lightning talk

Alexander Maier: Compensating random transition-detection blackouts in Markov networks

4:30 pm – Lightning talk

Natalia Ruiz-Pino: Entropic balance of feedback-controlled systems

3:45 pm – Lightning talk

Jinghao Lyu: Optimal Computation from Fluctuation Responses

5:00 pm – Invited talk

Udo Seifert: Model-free operationally accessible lower bounds on entropy production

5:30 pm – Invited talk

Mark Mitchison: Optimal Time Estimation and the Clock Uncertainty Relation for Stochastic Processes

Website: [wostmeeting.org](http://wostmeeting.org)

WOST VII Committees

Operations – David Sivak (chair), Simone Pigolotti, Jan Korbel, Sarah Loos, Antonio Patrón Castro, Jordan Sawchuk  
Scientific – Massimiliano Esposito (chair), Tan Van Vu, Aljaz Godec, Gianmaria Falasco, Todd Gingrich, Patrick Pietzonka, Andela Saric, Gonzalo Manzano, Léa Bresque, Cigdem Yalcin, Nahuel Freitas

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### Tuesday 19th May

## Thermodynamics of information & computation

Session Chair: Patrick Pietzonka / Nahuel Freitas

2:30 pm – Invited talk

Takase Shimizu: Information Thermodynamics in Real Devices: Limits and Constraints

3:00 pm – Invited talk

Salambô Dago: From demonstrating and to fooling the Landauer bound

3:30 pm – Lightning talk

Sho Nakade: Is there a thermodynamic cost for synchronizing fluctuating signals?

3:45 pm – Lightning talk

Patryk Lipka-Bartosik: Thermodynamic Networks: Harnessing Non-equilibrium Steady States for Computation

4:00 pm – *break*

4:15 pm – Lightning talk

Qiwei Yu: Coarse-graining in irreversible systems: The forward and inverse problems

4:30 pm – Lightning talk

Andrea Auconi: Bayesian Field Theory of the Rate Estimation

4:45 pm – Invited talk

David Wolpert: A strengthened second law and its application to computers

5:15 pm – Invited talk

Artemy Kolchinsky: Thermodynamic bounds on oscillator coherence and response

5:45 pm – Lightning talk

Mahran Yousef: Extending Circuit Complexity Theory to Thermodynamic Cost

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### Wednesday 20th May

## Quantum stochastic thermodynamics

Session Chair: Léa Bresque / Gonzalo Manzano

2:30 pm – Invited talk

Oren Raz: Finite-temperature criticality through quantum annealing

3:00 pm – Invited talk

Marcus Huber: TBA

3:30 pm – Lightning talk

Ruicheng Bao: Initial-state typicality in transient open quantum dynamics with applications to thermal quantum tasks

3:45 pm – Lightning talk

Vasco Cavina: Non-Markovian Open Quantum Systems: From Exact Stochastic Models to Quantum Thermodynamics

4:00 pm – *break*

4:15 pm – Lightning talk

Géraldine Haack: Quantum Kinetic Uncertainty Relations at Strong Coupling

4:30 pm – Lightning talk

Saulo Moreira: Steady-state heat engines driven by finite reservoirs

4:45 pm – Lightning talk

Guilherme Fiusa: Thermodynamics and inference of counting observables in stochastic excursions

5:00 pm – Invited talk

Felipe Javier Barra: Thermoelectric engine driven by information flow: An autonomous Maxwell demon across the quantum-to-classical transition

5:30 pm – Invited talk

Cecilia Cormick: Heat transport and thermometry with trapped ions"

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### Thursday 21st May

## Stochastic thermodynamics of physics & chemistry

Session Chair: Gianmaria Falasco / Todd Gingrich

2:30 pm – Invited talk

Giulio Ragazzon: Experimental realizations of endergonic processes

3:00 pm – Invited talk

Francesco Avanzini: Coarse Graining Photo-Isomerization Reactions: Thermodynamic Consistency and Implications for Molecular Ratchets

3:30 pm – Lightning talk

Jann van der Meer: Near-optimality of conservative driving in discrete systems

3:45 pm – Lightning talk

Matthias Geilhufe: Ultrafast Thermodynamics -- towards entropy, heat and criticality on picosecond timescales

4:00 pm – *break*

4:15 pm – Lightning talk

Jan Meibohm: Finite-time transitions in optimal control as dynamical phase transitions

4:30 pm – Lightning talk

Ellen Meyberg: Impact of currents on non-equilibrium coexistence in chemically driven mixtures

4:45 pm – Lightning talk

Alvaro Lanza: Measuring irreversibility in stochastic systems by categorizing single-molecule displacements

5:00 pm – Invited talk

Uwe Thiele: Chemo-mechanical coupling in sessile drops covered by reactive surfactant - from simple self-propulsion to bipedal and chaotic motion

5:30 pm – Invited talk

Zhiyue Lu: Geometric Design Principles of Periodically Driven Chemical Reactions

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### Friday 22nd May

## Biophysics & active matter

Session Chair: Massimiliano Esposito / Sarah Loos

2:30 pm – Invited talk

Shoichi Toyabe: Efficient control of F1 molecular motor in experiments

3:00 pm – Invited talk

Sophie Marbach: The Countoscope: Physical mechanisms hidden in Number Fluctuations

3:30 pm – Lightning talk

Manuel Mayo: Cooling mechanism controls motility-induced phase separation in inertial active liquids

3:45 pm – Lightning talk

Aaron Beyen: The emergence of activity

4:00 pm – *break*

4:15 pm – Lightning talk

Till Welker: Accuracy Comes at a Cost: Optimal Localisation Against a Flow

4:30 pm – Lightning talk

Shaofan Liu: Thermodynamics of Active Refrigerators

4:45 pm – Lightning talk

Megan Engel: Iterative improvement of free energy landscape reconstructions with optimal protocols derived using automatic differentiation

5:00 pm – Invited talk

Efe Ilker: Hydrodynamic theory of chemically active emulsions: active phases and dissipation

5:30 pm – Invited talk

Luca Cocconi: Nonequilibrium energetics of sensing and actuation by smart active particles

6:00 pm – Concluding remarks (WOST OC)

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