Organizer

Scientific Organizing Comittee
Prof. Dr. Erwin Frey

SFB1032 nano agents

Forces in Biomolecular Systems SFB 863

CeNS Center for NanoScience | LMU

Arnold Sommerfeld Center For Theoretical Physics

QB Quantitative Biosciences Munich

nim nanosystems initiative munich

Organizing Team (SFB1032)

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Venue

Kloster Seeon
83370 Seeon
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info@kloster-seeon.de

Useful Information

WLAN Password:
Kloster2019

Check In, May 1st:
During the coffee breaks and the lunch.
You can move to your rooms after 3pm.

Check Out, May 2nd and May 3rd:
Please pay for your rooms and the Tagungspauschale during May 2nd and 3rd. Please leave your rooms on May 3rd by 9am.

Breakfast:
07 – 09am

Classical Concert:
May 2nd, 7pm, Seminar Hall

Johann Sebastian Bach (1685-1750)
Suite für Violoncello solo G-Dur BWV 1007

Felix Mendelssohn Bartholdy (1809-1847)
Sonate for Violoncello und Klavier D-Dur No.2 op.58

Andreas Heinig, Violoncello
Nino Gurevich, Klavier

Departure by bus to Munich: May 3rd, 4pm

MECO44

44th Conference of the Middle European Cooperation:

Key Challenges in Statistical Physics

Wednesday, May 1st

09:50 Welcome (Erwin Frey)

10:00 Ramin Golestanian
Bose-Einstein Condensation in Scalar Active Matter with Diffusivity Edge

10:30 Hugues Chaté
Towards quantitative active matter studies

11:00 Coffee Break

11:30 Sophie Marbach
Active sieving : from flapping nano-doors to vibrating nanotubes

12:00 Adolfo Alsina Lopez
Specialization and plasticity in a primitive social insect: a collective phenomenon

12:15 Lunch

14:00 Cesare Nardini
Phase separation with broken time-reversal symmetry

14:30 Christoph Weber
Anomalous coarsening in active emulsions

14:45 Federico Corberi
Geometry of phase ordering

15:00 Fridtjof Brauns
Phase space geometry of reaction-diffusion systems

15:15 Poster Session with Coffee Break

17:00 Yariv Kavri
Longe-range forces between bodies in active matter

17:30 Thomas Voigtmann
Active Brownian Particles at High Densities

17:45 Alvaro Dominguez
Can equilibrium phases coexist in active systems?

18:30 Dinner

Thursday, May 2nd

09:00 Frank Juelicher
Self-organization of Active Surfaces

09:30 Chase Broedersz
Unraveling the dynamics of living systems: what can noisy trajectories teach us?

10:00 Benjamin Machta
Bounding information flow in E. Coli chemotaxis

10:30 Coffee Break

11:00 Isabella Graf
Stochastic yield catastrophes and robustness in self-assembly

11:30 Enrico Carlon
The influence of twist-bend coupling on the statistical mechanics of DNA

11:45 Joris Messelink
Statistical mechanics of the bacterial chromosome

12:00 Lunch

14:00 Udo Seifert
Stochastic thermodynamics and the inevitable cost of precision

14:30 Massimiliano Esposito
Thermodynamics of reaction-diffusion systems: Turing patterns and chemical waves

15:00 Tanja Schilling:
On the dynamics of reaction coordinates

15:30 Poster Session with Coffee Break

18:00 Dinner

19:30 Classical Concert

Friday, May 3rd

09:30 Kazumasa Takeuchi
Revisiting circular vs flat interfaces and application of variational principle

10:00 Matthieu Wyart
A jamming transition controls the landscape in deep learning

10:30 Coffee Break

11:00 Thomas Speck
Multi-scale modeling out of equilibrium

11:30 Joseph Indekeu
BLUES function method in statistical physics and beyond

11:45 Fakhteh Ghanbarnejad
Physics of Disease Ecology: perspectives and challenges

12:00 Lunch

14:00 Kay Wiese
Field theories for loop-erased random walks

14:15 Wolfhard Janke
Accelerating Molecular Dynamics Simulations with Population Annealing

14:30 Zolta Neda (MECO45)

14:45 Closing remarks (Erwin Frey)

16:00 Departure