**Organizer**
Scientific Organizing Committee
Prof. Dr. Erwin Frey

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**Organizing Team (SFB1032)**
Marilena Pinto
marilena.pinto@physik.lmu.de

**MECO44**
44th Conference of the Middle European Cooperation:
Key Challenges in Statistical Physics

**Venue**
Kloster Seeon
83370 Seeon
+49 (0) 8624 897-0
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 für Violoncello und Klavier D-Dur No.2 op.58*

*Andreas Heinig, Violoncello*
*Nino Gurevich, Klavier*

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