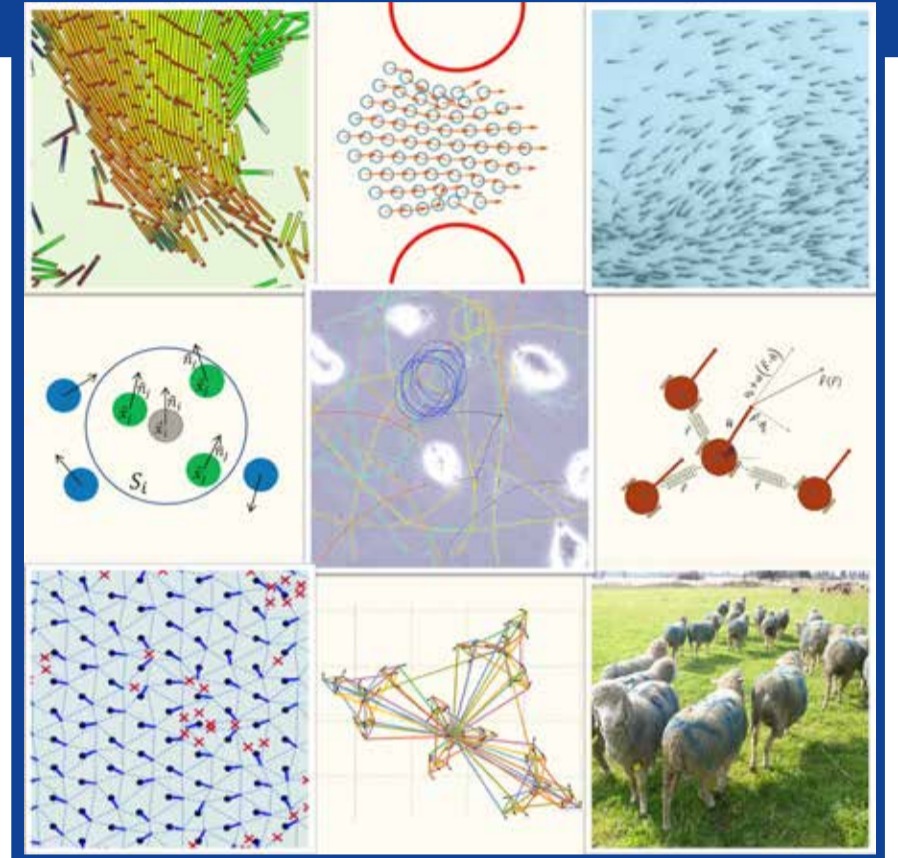


# New Perspectives in Active Systems

## International Workshop 24 - 28 April 2023

The study of natural and engineered active systems is rapidly evolving. Recent experimental results challenge early ideas; novel theoretical concepts describe different types of collective active dynamics.

We aim to bring together experimentalists and theoreticians with innovative perspectives on active systems, focusing on new experiments, models, and emerging states.



### Topics:

- New experimental and engineered active systems
- Natural and artificial active systems at all scales
- Novel collective states: beyond alignment and phase separation
- Nonstandard interactions: nonreciprocal, quorum-based, visual, hierarchical, etc.
- New types of activity: beyond self-propulsion
- Physics of self-propelled components
- Novel theoretical concepts and self-organizing principles
- Interaction network effects
- Anticipation and trajectory dependence
- Non-aligning dynamics
- Active-elastic systems
- Dense and jammed active systems

### Invited speakers:

Gil Ariel (IL)  
 Clemens Bechinger (DE)  
 Debasish Chaudhuri (IN)  
 Olivier Dauchot (FR)  
 Gonzalo de Polavieja (PT)  
 Erwin Frey (DE)  
 Silke Henkes (NL)  
 David L. Hu (US)  
 Jean-François Joanny (FR)  
 Enkeleida Lushi (US)  
 Andrea Perna (UK)  
 Pawel Romanczuk (DE)  
 Guy Theraulaz (FR)  
 Matthew Turner (UK)  
 Yilin Wu (HK)

### Scientific coordinators:

Cristián Huepe  
 Chicago, USA  
 Fernando Peruani  
 Cergy, France

### Organisation:

Maria Voigt  
 MPIPKS Dresden

Applications received before 3rd March 2023 are considered preferentially.

We plan for a **hybrid workshop** with a number of participants on-site and the others connected remotely. Online attendance will be possible in any case. However, oral and poster presentations will be restricted to on-site participants.

For on-site participation the registration fee is 140 Euro; costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

No fee for remote participation.

### For further information please contact:

Visitors Program – Maria Voigt  
 MPI for the Physics of Complex Systems  
 Nöthnitzer Str. 38, D-01187 Dresden  
 Tel: +49-351-871-1934  
 Fax: +49-351-871-2199  
 active23@pks.mpg.de  
 www.pks.mpg.de/active23/