Flocking - i.e. the ability of birds or other self-propelled agents to move coherently without a central control mechanism - is the problem starting the physics of active matter in 1995. Poster design: SuperNova Studios.

The Lorentz Center organizes international workshops for researchers in all scientific disciplines. Its aim is to create an atmosphere that fosters collaborative work, discussions and interactions. For registration see: www.lorentzcenter.nl

Scientific Organizers

- Luca Giomi, Universiteit Leiden
- Cecile Cottin-Bizonne, Université Lyon 1
- Cristina Marchetti, University of California Santa Barbara
- Anupam Sengupta, Université du Luxembourg

Topics

- Past and Future of Active Matter
- Collective Behaviour in Animals, Crowds and Robots
- Active Liquid Crystals
- Cells, Tissues and Transport Phenomena in Biological Matter
- Harnessing Active Matter for Technology and Applications
- Self-Organization and Self-Assembly in Active Matter