PHYSIK

PHYSIKALISCHES KOLLOQUIUM

UNIVERSITÄT DES SAARLANDES

Prof. Dr. Jae Dong Noh

University of Seoul

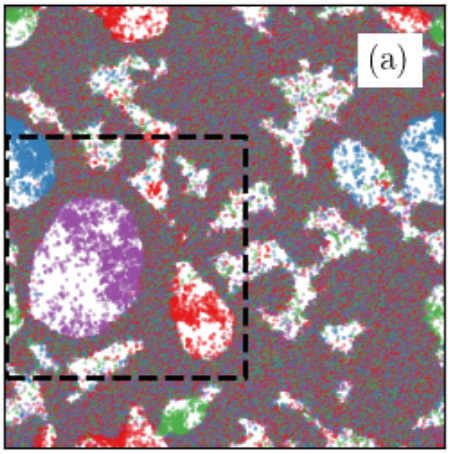
Emergent order in active matter

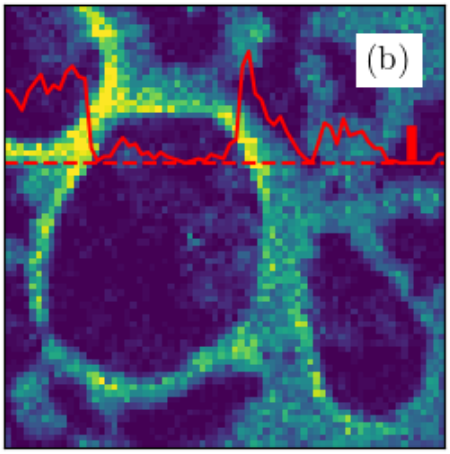
Thursday, 18.06.2026, at 14.15

Building C6.4, Lecture Hall II (00.9)

From cellular organelles, cells, fish, and birds to synthetic materials and micro-robots, the natural world is home to various types of active matter that consume energy to move and interact. Due to this inherent motility, active matter exists in a non-equilibrium state, exhibiting unique physical properties not found in thermal equilibrium systems. A prime example is the collective motion seen in schools of fish or flocks of birds; research is actively being conducted on how these groups achieve global order and pattern formation through local interactions.

In this colloquium, I will introduce the fundamental theories of statistical physics regarding active matter and discuss the latest research trends in multi-species active particle systems.





You can participate online via MS Teams.

Interested people are cordially invited.

Coffee and cookies are served at 14.00 in front of the Lecture Hall

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