

Focus Meeting of the Kyoto Winter School for Statistical Mechanics (Feb. 16-17)

Program

February 16 (Mon.)

9:30-10:15 Yutaka Sumino (Tokyo Univ. of Science)

“Numerical study on the collective behavior of self-propelled particle with finite memory”

10:15-11:00 K. Nagai (JAIST)

“Collective motion of rotating self-propelled particles”

11:00-11:15 Break

11:15-12:00 S. Sawai (U. Tokyo)

“Collective movement of ameboid cells driven by attachment-dependent ordering of directionality”

12:00-13:30 Lunch

13:30-14:00 Sebastian Fürthauer (New York U.)

“Phase-Synchronized State of Oriented Active Fluids”

14:00-14:30 Félix Ginot (U. Lyon)

“Active Janus Colloids. From Experiments to Active Pressure Measurement”

14:30-15:15 M. Yomosa (Osaka Pref. U.)

“Flocking Behavior of Birds: Analysis Based on the Field Data”

15:15-15:45 Break

15:45-16:30 M. Tarama (Kyoto U.)

“Nonlinear dynamics of active deformable particles”

16:30-17:15 Jean-François Rupprecht (ENS, Paris)

“Run-and-tumble dynamics for eukaryotic cells: actin flows mediate a universal coupling between cell speed and persistence”

February 17 (Tue.)

9:30-10:15 A. Naert (ENS, Lyon)

“Non-equilibrium statistical mechanics approach on granular gases”

10:15-11:00 P. Viot (ESPCI)

“Blocking in single-file particulate flows”

11:00-11:15 Break

11:15-12:00 S. Toyabe (Tohoku U.)

“Symmetry breaking of sequence information in template-directed ligation”

12:00-13:30 Lunch

13:30-14:15 T. Sagawa (U. Tokyo)

“Nonequilibrium thermodynamics of information processing”

14:15-15:00 S. Ito (U. Tokyo)

“Maxwell's demon in biochemical signal transduction with feedback loop”

15:00-15:30 Break

15:30-16:00 Showen Wang (Tsinghua University)

“The energetics for adaptation in E.coli sensory circuit”

16:00-16:45 K. Takeuchi (U. Tokyo)

“Universal fluctuations of growing interfaces and characterization via sign renewals”