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”