

2015 Winter Mini-workshop on Soft-Matter & Biophysics

Date : 2015 Feb. 5 (Thursday)

Place : Dept. of Physics, National Central University

主辦單位 : National Center for Theoretical Sciences; Institute of Physics, Academia Sinica

協辦單位 : Center for Mathematics & Theoretical Physics, Center for Complex Systems, NCU

This is a one-day casual mini-workshop gathering people who worked on various topics related to frontier Soft-matter & Biophysics, ranging from cell/bacteria motion, nonlinear biophysics, neurophysics, to statistical soft-matter physics. A large portion of the talks will be given by young researchers. PI's, postdocs and students are encouraged to attend and exchanging ideas.

Speakers :

- Prof. Rommel Bacabac (University of San Carlos, Cebu)
- Prof. Chien- Jung Lo 羅健榮 (National Central University)
- Dr. Wei-Yin Chiang 姜瑋茵 (Harvard University)
- Dr. Feng Wang 王峰 (Boston University)
- Dr. Mei-Hsien Tu 杜美嫻 (National Central University)
- Dr. Shiuan-Ni Liang 連萱妮 (National Central University)
- Dr. Chih-Hsu Huang 黃志旭 (Academia Sinica)
- Dr. Jiun-Shian Wu 吳俊賢 (Academia Sinica)
- Dr. Fan-Tso Chien 簡汎佐 (Academia Sinica)
- Dr. Chiao-Yu Tseng 曾喬毓 (Academia Sinica)

Program Schedule :

9:00~	On-site Registration
9:30 – 10:15 am	R. Bacabac Microrheology of living cells and biopolymer composites
10:15 – 10:45 am	W.Y. Chiang Dynamics of pathogen proliferation in <i>C. elegans</i> during infection
10:45 – 11:15am	Coffee Break
11:15 – 11:45pm	F. Wang. Two-step nucleation mechanism in solid–solid phase transitions
11:45 – 12:15pm	S.N. Liang Control of Cardiac Alternans
12:15 – 1:30 pm	Lunch Break
1:30 – 2:15 pm	C. J. Lo Investigating stator dynamics and distributions of bacterial flagellar motors
2:15 – 2:45 pm	M. H. Tu Size Dependence of the Propulsion Velocity for Catalytic Swimmers
2:45 – 3:15 pm	C.Y. Tseng Mechanical Control of Enzymes Using DNA Molecular Springs
3:15 – 3:45 pm	Coffee Break
3:45 – 4:15 pm	F. T. Chien DNA “hopping” in a nanoslit post array
4:15– 4:45 pm	J.S. Wu Evaluation of the neuronal network dynamics in the anterior cingulate cortex using neuronal avalanche
4:45 – 5:15 pm	C.H. Huang Reconstruction of neuronal network connection by double correlation matrix method
6:00 pm ~	Dinner for speakers & guests