

ICTS Workshop on Nonequilibrium StatMech and Biophysics

Date: **Tuesday, 6 June, 2017**

Venue: **Room 1014, Fong Shu Chuen Library, Ho Sing Hang Campus (old), HKBU**

Session I: *Nonequilibrium statistical physics, fluctuation theorems and applications*

9:15 – 9:45

Hyunggyu Park, KIAS

Carnot efficiency in an irreversible process

9:45 – 10:00

Yilin Wu, CUHK

Collective oscillations in bacteria suspensions

10:00 – 10:15

Leihan Tang, HKBU

From adaptation to collective oscillations: a nonequilibrium thermodynamic narrative

10:15 – 10:30

Michael Wong, HKUST

Bayes-optimal network structure for distributed multisensory integration

10:30 – 10:45

Changsong Zhou, HKBU

Cortical neural dynamics

10:45 - 11:00

Break

Session II: *Biophysics - computations and experiments*

11:00 – 11:30

Jooyoung Lee, KIAS

Multiple minima problems in traveling salesman problem, materials design and protein structure prediction/determination

11:30 – 11:45

Xuhui Huang, HKUST

Recent progress in computational studies of transcriptional machinery

11:45 – 12:00

Yi Wang, CUHK

Molecular dynamics simulations on biological membranes

12:00 – 12:15

Jade Shi, HKBU

Control of cell-type dependent p53 dynamics

12:15 – 12:30

Yuan Yao, HKUST

TBA

12:30

Lunch