

# Mini-Workshop on Cosmology

January 25-26, 2018

The Chinese University of Hong Kong

Venue: Room G25, G/F., Science Centre North Block, CUHK

## January 25 (Thursday)

Time	Title	Speaker
<b>Session I. Chair: Jianxiong Chen</b>		
10:00 – 10:30	<i>Measurement of the baryon acoustic oscillations from the dark energy survey</i>	<b>Kwan Chuen Chan,</b> Sun Yat-sen University
10:30 – 11:00	<i>An alternative method to set up pre-initial conditions for cosmological N-body simulations</i>	<b>Shihong Liao,</b> National Astronomical Observatory
11:00 – 11:30	<i>BMS and gravitational memory</i>	<b>Chong-Sun Chu,</b> National Tsing Hua University
12:00 – 13:30	<i>Lunch</i>	
<b>Session II. Chair: Shuai Zha</b>		
14:00 – 14:30	<i>A combined analysis of PandaX, LUX, and XENONIT experiments within the framework of dark matter effective theory</i>	<b>Sming Yue-lin Tsai,</b> Academia Sinica
14:30 – 15:00	<i>Dark and luminous matter asymmetry in the "offset cluster" A3847</i>	<b>Mandy Chen, HKU</b>
15:00 – 15:30	<i>Measuring the Hubble constant with LIGO</i>	<b>Adrian Chung, CUHK</b>
15:30 – 16:00	<i>Tea Break (Lobby, 1/F.)</i>	
<i>Free discussion from 16:00 onward</i>		

## January 26 (Friday)

Time	Title	Speaker
<b>Session III. Chair: Terry Yeung</b>		
09:30 – 10:00	<i>Cosmological neutrinos</i>	<b>Carton Zeng / M.-C. Chu,</b> CUHK
10:00 – 10:30	<i>Evidence of neutrino enhanced clustering in a complete sample of sloan survey clusters, implying <math>\Sigma m_\nu = 0.11 \pm 0.03</math> eV</i>	<b>Raizeh Emami, HKUST</b>
10:30 – 11:20	<i>1. Prospects for improved neutrino detection with deeper cluster surveys 2. Soliton detections at the Galactic Center and the Axiverse</i>	<b>Tom Broadhurst, HKUST</b>
12:00 – 13:30	<i>Lunch</i>	
<b>Session IV. Chair: Hantao Liu</b>		
14:00 – 14:30	<i>Challenges in the FDM simulation and opportunities</i>	<b>Jiajun Zhang,</b> Shanghai Jiaotong University
14:30 – 15:00	<i>Challenges in finding FDM features in observation and opportunities</i>	<b>Wentao Luo,</b> Shanghai Jiaotong University
15:00 – 15:30	<i>Tea Break (Lobby, 1/F.)</i>	
15:30 – 16:00	<i>Constraining dark matter properties by astrophysical data</i>	<b>Man Ho Chan, Hong Kong Education University</b>
16:00 – 16:30	<i>Wave goodbye to cold dark matter?</i>	<b>Jeremy Lim, HKU</b>
<i>Free discussion from 16:30 onward</i>		